DOCUMENT RESUME

ED 142 213 IR 005 069

AUTHOR	Rubin, Michael R.
TITLE	The Information Economy: User's Guide to the Complete Data Base.
INSTITUTION	Office of Telecommunications (DOC), Washington, D.C.
SPONS AGENCY	National Science Foundation, Washington, D.C.
REPORT NO	OT-SP-77-12-9
PUB DATE	May 77
CONTRACT	APR-7609015
NOTE	77p.; For related documents, see IR 005 061-069
AVAILABLE FROM	Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402 (Stock No. 033-000-00520-8)
EDRS PRICE	MF-$0.83 HC-$4.67 Plus Postage.
DESCRIPTORS	*Computer Programs; *Data Bases; Economic Research; *Guides; Industry; Information Utilization; Manuals; Models

ABSTRACT

This report series defines and measures the "information activity" within the national economy. "Information activity" is defined to include those specific industries and occupations whose primary function is to produce, process, or transmit economically valuable information. Changes in the national labor force are analyzed over a 120-year span. This volume is a user's guide to the computer model which describes the information elements of the economy in the benchmark year 1967. (Author/DAG)

****
* Documents acquired by ERIC include many informal unpublished *
* materials not available from other sources. ERIC makes every effort *
* to obtain the best copy available. Nevertheless, items of marginal *
* reproducibility are often encountered and this affects the quality *
* of the microfiche and hardcopy reproductions ERIC makes available *
* via the ERIC Document Reproduction Service (EDRS). EDRS is not *
* responsible for the quality of the original document. Reproductions *
* supplied by EDRS are the best that can be made from the original. *
****

ED142213

U S DEPARTMENT OF HEALTH
EDUCATION & WELFARE
NATIONAL INSTITUTE OF
EDUCATION

THIS DOCUMENT HAS BEEN REPRODUCED EXACTLY AS RECEIVED FROM THE PERSON OR ORGANIZATION ORIGINATING IT. POINTS OF VIEW OR OPINIONS STATED DO NOT NECESSARILY REPRESENT OFFICIAL NATIONAL INSTITUTE OF EDUCATION POSITION OR POLICY

OT SPECIAL PUBLICATION 77-12 (9)

THE INFORMATION ECONOMY: User's Guide to the Complete Data Base

Michael Rogers Rubin

This report was prepared by the Office of Telecommunications with partial support of National Science Foundation grant No. APR-7609015.

Any opinions, findings, conclusions, or recommendations expressed in this document are those of the author and do not necessarily reflect the views of the National Science Foundation or the Department of Commerce of the U.S. Government.

IR005069

U.S. DEPARTMENT OF COMMERCE
Juanita M. Kreps, Secretary

Jordan J. Baruch
Assistant Secretary for Science and Technology

OFFICE OF TELECOMMUNICATIONS
John M. Richardson, Director

May 1977

UNITED STATES DEPARTMENT OF COMMERCE
OFFICE OF TELECOMMUNICATIONS
STATEMENT OF MISSION

The mission of the Office of Telecommunications in the Department of Commerce is to assist the Department in fostering, serving, and promoting the nation's economic development and technological advancement by improving man's comprehension of telecommunication science and by assuring effective use and growth of the nation's telecommunication resources.

In carrying out this mission, the Office

- Conducts research needed in the evaluation and development of policy as required by the Department of Commerce
- Assists other government agencies in the use of telecommunications
- Conducts research, engineering, and analysis in the general field of telecommunication science to meet government needs
- Acquires, analyzes, synthesizes, and disseminates information for the efficient use of the nation's telecommunication resources.
- Performs analysis, engineering, and related administrative functions responsive to the needs of the Director of the Office of Telecommunications Policy, Executive Office of the President, in the performance of his responsibilities for the management of the radio spectrum
- Conducts research needed in the evaluation and development of telecommunication policy as required by the Office of Telecommunications Policy, pursuant to Executive Order 11556

For sale by the Superintendent of Documents, U.S. Government Printing Office
Washington, D.C. 20402

Stock No. 003-000-00530-8

FOREWORD

Physics, a discipline at the heart of our last major technological revolution, yields a quotation that is highly appropriate to the present work:

> When you can measure what you are speaking about, and express it in numbers, you know something about it; but when you cannot measure it, when you cannot express it in numbers, your knowledge is of a meager and unsatisfactory kind: it may be the beginning of knowledge, but you have scarcely, in your thoughts, advanced to the stage of science.
>
> -- William Thomson, Lord Kelvin
> (1824-1907) English Physicist

Notions of yet another major revolution, one that will bring about a "post-industrial" society, have been in the air for some time now. Yet, few steps toward the measurement of this revolution's most important element -- information activities -- were taken until Dr. Porat began the investigation that is reported in these volumes. We might say, then, that this study, truly a seminal one, pushes our knowledge of an information economy closer to "the stage of science."

This report proposes a conceptual framework for defining the information activities of an advanced economy, and prescribes an objective way to quantify them. Without such definition and measurement, I cannot imagine how we can formulate sound policy for an information society. The fact that so many information policy issues are pressing upon us adds to the pertinence of the research.

It may strike some as odd that the Office of Telecommunications, an organization concerned principally with telecommunications technology, would offer a report dealing with the whole range of information activities. The explanation lies in the need to view telecommunications in the larger context of its effects on other aspects of society. Satellite networks, for example, can be an instrument for regional economic development. Retail terminals can perform banking functions. And electronic communications is steadily diminishing the volume of traditional postal delivery. Thus, it is essential to appreciate how issues internal to telecommunications influence other kinds of information activities. Conversely, ways of achieving broader policy objectives might well produce decisions affecting telecommunications services. I have in mind such goals as the provision of equal access to high-quality health care or the expansion of continuing education, both of which obviously can be facilitated by the electronic media. To the extent that telecommunications and its sister technology, computers, are at the core of the infrastructure of the information society, their relationships with the larger society are every bit as important as their internal problems.

The concepts and methods described in these volumes have begun to attract wide national and international notice. They are cited by officials of the Congress, the Executive Branch, and the regulatory agencies. They are being studied by international organizations. Yet, in spite of all the acknowledgments, this study constitutes only a point of departure toward a more complete understanding of the information society. We must devise and test alternative representations of the information economy against this one. We still have to settle on the best model, achieve comparability among models in other countries, produce trend data, and construct the methods for predicting consequences of alternative policy decisions.

I am confident that this additional work will be taken up by others. Moreover, I believe that their efforts will sharpen these concepts into a new tool, a tool of great value because of its clear relevance to the course of our world's complex societies.

John M. Richardson
Director

INTRODUCTORY NOTE

Science, commerce and technology are inextricably interconnected in American society. It is therefore fitting that this effort to clarify one aspect of their impact was a joint project of the National Science Foundation and the Department of Commerce. The National Science Foundation provided the funds needed to undertake the project, the Department of Commerce the institutional setting in which to conduct it. The bond was cemented through a common concern with telecommunications technologies and policies.

We were particularly motivated by the prospect of increasing the substance surrounding fascinating concepts about the changing nature of American society. The evident acceleration in invention and application of information technologies and the social and economic change which accompanies this development, is directly relevant to a wide range of policy concerns.

The findings of this research are provocative and concise. We trust that they will stimulate and illuminate public discussion. The report describes some of the ways in which the findings have been applied thus far. Yet it is clear that this work is an incremental contribution and that much remains to be accomplished. Work has begun in the U.S. and abroad to extend the data base developed in the project. I extend an invitation to readers to contribute their reactions to the report and their ideas on further research.

Charles N. Brownstein
Program Manager
Telecommunications Policy
Research Program
National Science Foundation, 1977.

PREFACE

The production, distribution and processing of information has become one of the major activities of the United States economy. The Office of Telecommunications, with funding from the National Science Foundation, has conducted a study of this growing "information sector," in an attempt to begin to understand its economic and social ramifications.

This research has produced a computer model which describes the information elements of the economy in the benchmark year 1967. The model has shown that the production of information goods and services account for nearly half of the National Value Added. Twenty-five percent of Value Added is produced in primary information activities, and an additional 21% in secondary information activities (intra-firm and intra-government information services.) These informational activities engage over 40% of the U.S. workforce and generate over half the wage bill.

This report is a user's guide to the computer model produced in the course of this research. The data base is available on magnetic tape through the National Technical Information Service, Accession No. PB-264 172, titled "The Information Economy." Users are urged to contact Michael R. Rubin, (202) 724-3315, with any questions about the data base.

SYNOPSIS

THE INFORMATION ECONOMY Report Series totals nine volumes, each of which has its own subtitle.

77-12(1) -- THE INFORMATION ECONOMY: Definition and Measurement -- Dr. Marc Uri Porat -- 265 pp.

This volume contains the executive summary and the major findings of the study. It defines information activity and includes a formal set of National Income and Product Accounts for the primary and secondary information sectors, with input-output matrices for both of these sectors. In addition, it specifies the information-related occupations of both the primary and secondary information sectors; this includes a consideration of private and public bureaucracies. Finally, it presents lists of information policy issues pertaining to industry, government, and the home and makes two recommendations as to how the Federal government might meet the public policy issues posed by the expansion of our information activity.

77-12(2) -- THE INFORMATION ECONOMY: Sources and Methods for Measuring the Primary Information Sector (Detailed Industry Reports) -- Dr. Marc Uri Porat -- 188 pp.

This volume presents reports of the 25 major industries that compose the primary information sector. The volume's classification scheme is based on the Bureau of Economic Analysis Input-Output Matrix. Each industry is discussed in great detail. The discussions include the reasoning behind considering the industry as part of the primary information sector, a breakdown of the subordinate industries that compose the larger industrial category, a narrative of the informational aspects of the industry, and a report of the final demand and value-added components. The service, manufacturing, and construction sectors of the economy are considered.

* * * * * *

We call to the reader's attention that the most critical part of the entire report series is to be found in the first two volumes. The remaining volumes are essentially supplements to and extensions of Volumes 1 and 2.

77-12(3) -- THE INFORMATION ECONOMY: The Interindustry Transactions Matrices (1967) -- Dr. Marc Uri Porat, with the assistance of Michael R. Rubin -- 58 pp.

Volume 3 consists of input-output tables showing transactions in the 1967 economy. One table shows a breakout of 108 industries, another of 190 industries.

77-12(4) -- THE INFORMATION ECONOMY: The Technology Matrices (1967) -- Dr. Marc Uri Porat, with the assistance of Michael R. Rubin -- 117 pp.

Volume 4 includes A-coefficient matrices for the 1967 economy at both the 108 and 190 levels of detail.

77-12(5) -- THE INFORMATION ECONOMY: The "Total Effect" Matrices (1967) -- Dr. Marc Uri Porat, with the assistance of Michael R. Rubin -- 117 pp.

This volume contains the 1967 Inverse Matrices with detail at both the 108 and 190 industry levels.

Volumes 3 through 5 contain backup information to Chapters 6 and 10 of Volume 1.

77-12(6) -- THE INFORMATION ECONOMY: The Labor Income by Industry Matrix of Employee Compensation (1967) -- Dr. Marc Uri Porat, with the assistance of Michael R. Rubin -- 100 pp.

Volume 6 consists of a table of 422 occupations and 108 industries showing the wages paid by each industry to each occupation in 1967.

77-12(7) -- THE INFORMATION ECONOMY: The Labor Income by Industry Matrix of Employee Compensation (1970) -- Dr. Marc Uri Porat, with the assistance of Michael R. Rubin -- 91 pp.

Volume 7 consists of a table of 422 occupations and 108 industries showing the wages paid by each industry to each occupation in 1970.

Volumes 6 and 7 contain backup information to Chapter 7 of Volume 1.

77-12(8) -- THE INFORMATION ECONOMY: National Income, Workforce, and Input-Output Accounts -- Dr. Marc Uri Porat, with the assistance of Michael R. Rubin -- 91 pp.

This volume contains backup material to Chapters 4 and 9 of Volume 1. It consists of a number of tables, including those that show trends in the labor force over time and National Income Accounts information.

77-12(9) -- THE INFORMATION ECONOMY: User's Guide to the Complete Database -- Michael R. Rubin -- 71 pp.

This volume is a user's guide to the computer model which describes the information elements of the economy in the benchmark year 1967. The database is available on magnetic tape through the National Technical Information Service, Springfield, Virginia, Accession No. PB-264 172, titled "The Information Economy."

ACKNOWLEDGMENTS

This report, and the magnetic tape it describes, represent part of the results of economic research conducted by Dr. Marc U. Porat on The Information Economy. The research was partially sponsored by the National Science Foundation (RANN/Division of Advanced Productivity Research and Technology, Grant No. APR-7609015); managed by Dr. Charles Brownstein, and conducted under the auspices of Dr. John M. Richardson, Director of the Office of Telecommunications, U.S. Department of Commerce.

Fran Sills has participated in the planning, design and preparation of this report.

The skills of many people have been drawn upon to provide support for the computer research done for this project.

Many in the Office of Economic Growth of the Bureau of Labor Statistics have been generous with their help. In particular, Charles Bowman's willingness to make the Bureau's Input-Output computer software package available has been of great value. In addition, at various times Dr. John Tschetter, Thomas Mooney, Kenneth Rogers and David Frank have offered help and advice. Maria Mahon has offered constructive criticism regularly for over a year.

Patrick Sullivan, of General Systems Corporation, has patiently debugged many a computer program. He has endured much foolishness with much grace.

Howard Schreier, of the Bureau of Economic Analysis, provided the materials for the fourteenth data set on the tape.

Finally, Ari M. Michelsen has volunteered much help, including calculations and keypunching, over the last three years.

TABLE OF CONTENTS

		PAGE
Foreword		iii
Introductory Note		v
Preface		vi
Synopsis		vii
Acknowledgments		ix
List of Tables		xi
Data Set 1:	The 507-Level Transactions Table	1
Data Set 2:	The Labor Income by Industry Matrix (1967)	4
Data Set 3:	The Labor Income by Industry Matrix (1970)	7
Data Set 4:	The 108-Level Transactions Matrix (1967)	10
Data Set 5:	The 108-Level Direct Requirements (A) Matrix (1967)	13
Data Set 6:	The 108-Level Total Requirements (Inverse) Matrix (1967)	16
Data Set 7:	The 108-Level Final Demand Matrix (1967)	19
Data Set 8:	The 108-Level Total Output Matrix (1967)	22
Data Set 9:	The 190-Level Transactions Matrix (1967)	25
Data Set 10:	The 190-Level Direct Requirements (A) Matrix (1967)	28
Data Set 11:	The 190-Level Total Requirements (Inverse) Matrix (1967)	31
Data Set 12:	The 190-Level Final Demand Matrix (1967)	34
Data Set 13:	The 190-Level Total Output Matrix (1967)	37
Data Set 14:	Excerpts from the Input-Output Work Tape (1967)	40
Bibliographis Data Sheet		64

LIST OF TABLES

Table #	Title*	Page
1	The 507-Level Transactions Table (1967).....	3
2	The Labor Income by Industry Matrix (1967)....	6
3	The Labor Income by Industry Matrix (1970)....	9
4	The 108-Level Transactions Matrix (1967).....	12
5	The 108-Level Direct Requirements Matrix (1967).....	15
6	The 108-Level Direct Requirements Matrix (1970).....	18
7	The 108-Level Final Demand Matrix (1967).....	21
8	The 108-Level Total Output Matrix (1967).....	24
9	The 190-Level Transactions Matrix (1967).....	27
10	The 190-Level Direct Requirements Matrix (1967).....	30
11	The 190-Level Total Requirements Matrix (1967).....	33
12	The 190-Level Final Demand Matrix (1967).....	36
13	The 190-Level Total Output Matrix (1967).....	39
14	The Input-Output Work Tape.....	41
15	Industry Classification for the 503-Level 1967 Input-Output Table.....	42
16	Industry Classification for the 108-Level 1967 Input-Output Table.....	50
17	Abbreviated Occupational Titles: 1967 and 1970 Wage Matrices.....	52
18	Industry Classification for the 190-Level Input-Output Table.....	60

* Tables 1 through 14 do not contain the entire matrix, but only sample data records.

Data Set 1: The 507-Level Transactions Table*

This data set contains transactions and trade and transportation margins from the 1967 Input-Output study compiled by the Bureau of Economic Analysis, as adapted by Porat. Those adaptations consist of splitting certain industries by proration. A discussion of the sources and methods used in the proration may be found in Sources and Methods, Number 77-12-3, of the Office of Telecommunications Special Report Series.

Data Format

Each logical record contains row and column subscripts, and data observations for the individual cell specified by those subscripts. The record layout is:

Position	Description
1 - 6	Row
7 - 12	Column
13 - 22	Direct Allocation
23 - 32	Domestic Transfers
33 - 42	Margins, Domestic Transactions
43 - 52	Transferred Imports
53 - 62	Scrap and Byproduct Adjustment
63 - 72	Total Transaction (in thousands of $)
73 - 82	Blank
83 - 92	Blank
93 - 102	Railroad Margin
103 - 112	Pipeline Margin
113 - 122	Trucking Margin
123 - 132	Water Margin
133 - 142	Air Margin
143 - 152	Insurance
153 - 162	Retail Margin
163 - 172	Wholesale Margin

---

* Much of the material for this description was taken from the Bureau of Economic Analysis' "Description of Computer Tape Containing Interindustry Transactions and Trade and Transportation Costs for the 1967 Input-Output Study -- 484 Industry Level."

Table 1 is a listing of the first several records of this data set. Table 15 lists the industry codes used in the row and column positions, as those codes appear on the tape.

Physical Characteristics

The data set is written onto a 9-track, 1600 b.p.i., standard label tape. The data set name is "WGE1MUP.BEA503," the record length is 172 bytes and the block size is 1720 bytes. This is the first data set on the tape volume.

TABLE 1: SAMPLE DATA RECORDS FROM THE 503-LEVEL TRANSACTIONS TABLE (1967)

010100010301		+997		+0		+0		+0		+0		+997		+0		
+0	+0		+0		+0		+0		+0		+0		+0			
010100020100		+17		+0		+0		+0		+0		+17		+0		
+0	+0		+0		+0		+0		+0		+0		+0			
010100020201		+328		+0		+0		+0		+0		+328		+0		
+0	+0		+0		+0		+0		+0		+0		+0			
010100020202		+2340		+0		+0		+0		+0		+2340		+0		
+0	+0		+0		+0		+0		+0		+0		+0			
010100020203		+4		+0		+0		+0		+0		+4		+0		
+0	+0		+0		+0		+0		+0		+0		+0			
010100020300		+8		+0		+0		+0		+0		+8		+0		
+0	+0		+0		+0		+0		+0		+0		+0			
010100020401		+9		+0		+0		+0		+0		+9		+0		
+0	+0		+0		+0		+0		+0		+0		+0			
010100020501		+27		+0		+0		+0		+0		+27		+0		
+0	+0		+0		+0		+0		+0		+0		+0			
010100020502		+5		+0		+0		+0		+0		+5		+0		
+0	+0		+0		+0		+0		+0		+0		+0			
010100020503		+15		+0		+0		+0		+0		+15		+0		
+0	+0		+0		+0		+0		+0		+0		+0			
010100020600		+175		+0		+0		+0		+0		+175		+0		
+0	+0		+0		+0		+0		+0		+0		+0			
010100020702		+75		+0		+0		+0		+0		+75		+0		
+0	+0		+0		+0		+0		+0		+0		+0			
010100140200		+5614		+146		+0		+0		+0		+5760		+0		
+0	+0		+0		+0		+0		+0		+0		+0			
010100140300		+5182		+0		+0		+0		+0		+5182		+0		
+0	+0		+0		+0		+0		+0		+0		+0			
010100140400		+4119		+0		+0		+0		+0		+4119		+0		
+0	+0		+0		+0		+0		+0		+0		+0			
010100140500		+1267		+0		+0		+0		+0		+1267		+0		
+0	+0		+0		+0		+0		+0		+0		+0			
010100140600		+32444		+8759		+0		+0		+0		+41203		+0		
+0	+0		+0		+0		+0		+3		+0		+0			
010100710100		+0		+2261		+0		+0		+0		+2261		+0		
+0	+0		+0		+0		+0		+0		+0		+0			
010100710201		+0		+81		+0		+0		+0		+81		+0		
+0	+0		+0		+0		+0		+0		+0		+0			
010100710202		+0		+137		+0		+0		+0		+138		+0		
+0	+0		+0		+0		+0		+0		+0		+0			
010100760201		+0		+3		+0		+0		+0		+3		+0		
+0	+0		+0		+0		+0		+0		+0		+0			
010100760202		+0		+18		+0		+0		+0		+19		+0		
+0	+0		+0		+0		+0		+0		+0		+0			
010100910000		+1515		+0		+0		+0		+0		+1515		+0		
+0	+0		+0		+0		+0		+0		+0		+0			
010100930000		+39		+0		+0		+0		+0		+39		+0		
+0	+0		+0		+0		+0		+0		+0		+0			
010200020100		+44		+0		+0		+0		+0		+44		+0		
+0	+0		+0		+0		+0		+0		+0		+0			
010200020201		+141		+0		+0		+0		+0		+141		+0		
+0	+0		+0		+0		+0		+0		+0		+0			
010200020202		+644		+0		+0		+0		+0		+644		+0		
+0	+0		+0		+0		+0		+0		+0		+0			
010200020203		+3		+0		+0		+0		+0		+3		+0		
+0	+0		+0		+0		+0		+0		+0		+0			
010200020300		+6		+0		+0		+0		+0		+6		+0		
+0	+0		+0		+0		+0		+0		+0		+0			
010200020401		+22		+0		+0		+0		+0		+22		+0		

Data Set 2: The Labor Income by Industry Matrix (1967)

This matrix represents the wages earned by various occupations within the 108 industries which make up the national economy. The 108 rows of this matrix are the industries used by Porat to describe the information economy. The 422 columns match the Bureau of Labor Statistics' Occupational titles from the 1967 Industry by Occupation matrix.* A cell in the matrix represents the wages, in millions of dollars, paid by an industry to an occupation in the year 1967. A discussion of the sources and methods used in the compilation of the matrix may be found in The Labor Income by Industry Matrix (1967) and Sources and Methods, Numbers 77-12-7 and 77-12-3, of the Office of Telecommunications Special Report Series.

Data Format

The data set is composed of card image records. The first record in the data set is an identification record containing the matrix name and size. The format of the identification record, in FORTRAN notation, is:

Identification Record

Format	4A4	I4	I4	56X
Data Element	Matrix Name	# of Rows	# of Columns	Filler

The data records each contain a row subscript, a column subscript, and seven data elements. The format of a data record, in FORTRAN notation, is:

Data Record

Format	I4	I4	7F10.1
Data Element	Row	Column	Seven Data Elements

The last record in the data set contains a "-1" in the row position. Table 2 contains the first several records of this data set.

---

* See Table 16 for the industry sectoring scheme, and Table 17 for the Occupation Titles scheme.

In order to conserve space, the data set has been written with "0" data elements suppressed when possible. The user must have a clear understanding of the zero suppression algorithm to successfully read the data set. The data appears in row order, with all the data elements of one row written out before a new row begins. A new record begins with the first nonzero data elements of each new row. That record is then filled out with the succeeding six data elements, whether or not zero, to fill out the record. The next record begins with the next nonzero data element in the row. For example, see Table 2. Row 1, Column 1, of the matrix has a value of zero. Thus, the zero is suppressed, and the data record begins with Column 2. Note also that the record, Row 1, Column 9, contains an unsuppressed zero in Column 13, as the algorithm requires. Finally, Row 2 begins on a new record, and the entry for Column 1 is a suppressed zero.

Physical Characteristics

The data set is written onto a 9-track, 1600 b.p.i., standard label tape. The data set name is "WGE1MUP.WAGE67," the record length is 80 bytes and the block size is 3120 bytes. The matrix is the second data set on the tape volume.

TABLE 2: SAMPLE DATA RECORDS FROM THE LABOR INCOME BY INDUSTRY MATRIX (1967)

WAGE	1967		108	422	1	1		
1	2	2.1	67.7	9.7	3.4	9.8	0.2	0.1
1	9	0.1	3.6	2.4	0.1	0.0	0.1	0.4
1	16	0.3	0.1	0.1	0.0	0.0	0.0	0.1
1	23	0.2	0.2	19.4	2.0	0.0	0.0	0.0
1	30	8.2	1.9	0.0	0.0	0.0	0.0	0.0
1	39	0.3	0.0	0.0	0.0	0.0	0.0	0.0
1	49	1.6	0.0	0.0	0.0	0.5	0.0	0.7
1	56	1.6	0.7	0.2	0.8	0.0	0.0	0.0
1	99	7.0	0.0	0.0	0.6	0.1	1.8	0.0
1	106	0.3	23.7	4.8	0.0	0.0	0.0	0.0
1	113	0.1	0.0	0.0	1.7	0.2	0.4	4.3
1	120	0.6	0.0	0.0	0.0	4.9	0.7	0.0
1	128	12.7	0.0	8.7	0.0	0.0	0.0	0.0
1	135	0.7	0.0	0.0	0.0	0.0	6.5	23.7
1	142	2.0	0.0	0.0	0.0	647.6	0.1	0.0
1	159	24.2	0.2	0.0	69.9	1.3	7.5	0.8
1	166	0.1	1.1	0.2	1.5	0.0	0.2	0.0
1	173	1.4	58.8	0.6	0.0	2.1	0.2	0.7
1	180	1.4	0.0	58.1	4.0	1.9	0.0	0.1
1	188	0.8	0.7	0.0	9.4	0.0	0.0	0.4
1	195	5.6	1.8	2.0	4.9	0.0	0.0	0.0
1	202	1.1	0.0	0.6	12.9	445.2	4.4	95.7
1	209	2.6	33.9	37.7	179.1	9.5	133.8	9.2
1	216	120.8	0.7	1.9	16.0	0.2	176.6	7.2
1	223	31.6	49.9	15.2	150.2	0.2	5.7	0.0
1	230	0.2	0.0	2.8	0.1	6.5	0.0	0.0
1	237	0.4	0.0	51.5	2.3	0.1	0.0	40.3
1	246	0.2	12.3	0.0	0.2	0.0	46.5	6.9
1	254	0.1	1.5	0.0	0.5	4.7	0.0	0.6
1	261	0.1	0.3	0.0	0.1	0.0	0.0	21.8
1	271	6.2	1.5	0.0	4.3	16.1	26.1	0.1
1	279	0.2	0.0	6.6	0.0	5.9	0.0	0.0
1	291	0.2	6.0	0.2	0.0	0.0	8.1	0.0
1	298	2.8	0.2	0.0	0.1	0.0	0.8	0.0
1	305	0.3	0.0	0.1	50.0	0.0	0.0	0.0
1	319	17.8	1.7	1.5	0.0	2.1	0.0	1.5
1	327	14.9	30.9	0.0	0.6	0.7	0.0	0.0
1	337	0.3	7.7	0.0	0.6	0.2	2.0	1.6
1	346	0.8	0.4	9.1	18.2	0.4	0.0	0.0
1	353	11.0	4.6	0.2	0.0	0.0	0.0	0.5
1	360	89.4	0.0	4.7	11.3	0.0	0.0	0.5
1	367	0.1	0.0	0.4	0.1	0.0	0.0	0.0
1	385	0.9	0.0	0.3	0.0	0.0	0.0	0.0
1	392	0.1	0.1	4.3	0.0	0.2	0.0	0.0
1	404	46.6	377.5	0.0	11.6	0.1	4.7	0.2
1	411	0.2	1.2	0.1	0.8	2.8	0.0	0.0
2	2	2.2	70.3	10.1	3.5	10.1	0.3	0.1
2	9	0.1	3.8	2.5	0.1	0.0	0.1	0.4
2	16	0.3	0.1	0.1	0.0	0.0	0.0	0.1
2	23	0.2	0.2	20.2	2.1	0.0	0.0	0.0
2	30	8.5	2.0	0.0	0.0	0.0	0.0	0.0
2	39	0.3	0.0	0.0	0.0	0.0	0.0	0.0
2	49	1.7	0.0	0.0	0.0	0.5	0.0	0.8
2	56	1.7	0.8	0.2	0.8	0.0	0.0	0.0
2	63	0.1	0.0	0.0	0.0	0.0	0.0	0.0
2	99	7.2	0.0	0.0	0.6	0.1	1.9	0.0
2	106	0.3	24.6	5.0	0.0	0.0	0.0	0.0
2	113	0.1	0.0	0.0	1.8	0.2	0.4	4.5

Data Set 3: The Labor Income by Industry Matrix (1970)

This matrix represents the wages earned by various occupations within the 108 industries which make up the national economy. The 108 rows of this matrix are the industries used by Porat to describe the information economy. The 422 columns match the Bureau of Labor Statistics' Occupational titles from the 1967 Industry by Occupation matrix.* A cell in the matrix represents the wages, in millions of dollars, paid by an industry to an occupation in the year 1970. A discussion of the sources and methods used in the compilation of the matrix may be found in The Labor Income by Industry Matrix (1970) and Sources and Methods, Numbers 77-12-8, of the Office of Telecommunications Special Report Series.

Data Format

The data set is composed of card image records. The first record in the data set is an identification record containing the matrix name and size. The format of the identification record, in FORTRAN notation, is:

Identification Record

Format	4A4	I4	I4	56X
Data Element	Matrix Name	# of Rows	# of Columns	Filler

The data records each contain a row subscript, a column subscript, and seven data elements. The format of a data record, in FORTRAN notation, is:

Data Record

Format	I4	I4	7F10.1
Data Element	Row	Column	Seven Data Elements

The last record in the data set contains a "-1" in the row position. Table 3 contains the first several records of this data set.

---

* See Table 16 for the industry sectoring scheme, and Table 17 for the Occupation Titles scheme.

In order to conserve space, the data set has been written with "0" data elements suppressed when possible. The user must have a clear understanding of the zero suppression algorithm to successfully read the data set. Please see the description of Data Set 2 for an explanation of that algorithm.

Physical Characteristics

The data set is written onto a 9-track, 1600 b.p.i., standard label tape. The data set name is "WGE1MUP.WAGE70," the record length is 80 bytes and the block size is 3120 bytes. The matrix is the third data set on the tape volume.

TABLE 3: SAMPLE DATA RECORDS FROM THE LABOR INCOME BY INDUSTRY MATRIX (1970)

WAGE	1970		108 422	1	1			
1	2	2.7	87.1	12.5	4.3	12.5	0.3	0.1
1	9	0.1	4.7	3.1	0.1	0.0	0.1	0.5
1	16	0.4	0.1	0.1	0.0	0.0	0.1	0.1
1	23	0.2	0.3	25.0	2.5	0.0	0.0	0.0
1	30	10.5	2.5	0.0	0.0	0.0	0.0	0.0
1	39	0.3	0.0	0.0	0.0	0.0	0.0	0.0
1	48	0.1	2.1	0.0	0.0	0.0	0.6	0.0
1	55	0.9	2.1	0.9	0.2	1.0	0.0	0.0
1	63	0.1	0.0	0.0	0.0	0.0	0.0	0.0
1	99	9.0	0.0	0.0	0.7	0.2	2.3	0.0
1	106	0.4	30.4	6.1	0.0	0.0	0.0	0.0
1	113	0.1	0.0	0.0	2.2	0.2	0.6	5.6
1	120	0.8	0.0	0.0	0.0	6.2	0.9	0.0
1	128	16.3	0.0	11.2	0.0	0.0	0.0	0.0
1	135	0.9	0.0	0.0	0.0	0.0	8.3	30.5
1	142	2.6	0.0	0.0	0.1	833.0	0.2	0.0
1	159	31.2	0.3	0.0	89.9	1.6	9.7	1.0
1	166	0.2	1.4	0.2	2.0	0.0	0.2	0.0
1	173	1.7	75.6	0.8	0.0	2.6	0.4	1.0
1	180	1.7	0.0	74.8	5.1	2.4	0.0	0.1
1	188	1.0	1.0	0.0	12.1	0.0	0.0	0.5
1	195	7.2	2.3	2.5	6.2	0.0	0.0	0.0
1	202	1.4	0.0	0.7	16.6	572.6	5.7	123.1
1	209	3.4	43.6	48.5	230.3	12.3	172.2	11.8
1	216	155.3	0.8	2.5	20.5	0.3	227.2	9.3
1	223	40.7	64.2	19.5	193.1	0.2	7.4	0.0
1	230	0.2	0.0	3.6	0.1	8.4	0.0	0.0
1	237	0.5	0.1	66.2	2.9	0.1	0.0	51.9
1	246	0.3	15.8	0.0	0.2	0.0	59.8	8.8
1	254	0.1	2.0	0.0	0.7	6.1	0.0	0.8
1	261	0.1	0.4	0.0	0.2	0.0	0.0	28.0
1	268	0.1	0.0	0.0	8.0	2.0	0.0	5.5
1	275	20.7	33.6	0.2	0.0	0.3	0.0	8.4
1	282	0.1	7.5	0.0	0.0	0.0	0.0	0.0
1	291	0.2	7.7	0.3	0.0	0.0	10.4	0.0
1	298	3.6	0.2	0.0	0.2	0.0	1.0	0.0
1	305	0.4	0.0	0.1	64.3	0.0	0.0	0.0
1	319	22.8	2.2	2.0	0.0	2.6	0.0	1.9
1	327	19.2	39.7	0.0	0.7	0.9	0.0	0.0
1	337	0.4	9.9	0.0	0.8	0.3	2.5	2.1
1	346	1.1	0.5	11.7	23.4	0.5	0.0	0.0
1	353	14.1	5.9	0.2	0.0	0.0	0.0	0.6
1	360	115.0	0.0	6.0	14.6	0.0	0.0	0.7
1	367	0.1	0.0	0.5	0.1	0.0	0.0	0.0
1	375	0.1	0.0	0.0	0.0	0.0	0.0	0.0
1	385	1.1	0.0	0.4	0.0	0.0	0.0	0.0
1	392	0.2	0.1	5.5	0.0	0.2	0.0	0.0
1	404	60.0	485.6	0.0	15.0	0.1	6.0	0.3
1	411	0.2	1.6	0.1	1.1	3.6	0.0	0.0
2	2	2.8	90.5	13.0	4.5	13.0	0.3	0.2
2	9	0.1	4.8	3.2	0.1	0.0	0.1	0.6
2	16	0.4	0.1	0.1	0.0	0.0	0.1	0.1
2	23	0.2	0.3	26.0	2.6	0.0	0.0	0.0
2	30	10.9	2.6	0.0	0.0	0.0	0.0	0.0
2	39	0.4	0.0	0.0	0.0	0.0	0.0	0.0
2	48	0.1	2.2	0.0	0.0	0.0	0.7	0.0
2	55	1.0	2.2	1.0	0.2	1.0	0.0	0.0
2	63	0.1	0.0	0.0	0.0	0.0	0.0	0.0

Data Set 4: The 108-Level Transactions Matrix (1967)

This matrix is the "information economy" transactions table, showing detail at the primary level of information production. The 108 industries in the matrix are listed in Table 16. This matrix was created by collapsing the 500-order matrix which appears in Data Set 1 into the 108 industry scheme. A further discussion of the methods used in creating the matrix may be found in The Inter-industry Transactions Matrix (1967) and Sources and Methods, Numbers 77-12-4 and 77-12-3 of the Office of Telecommunications Special Report Series.

Data Format

The data set is composed of card image records. The first record in the data set is an identification record containing the matrix name and size. The format of the identification record, in FORTRAN notation, is:

Identification Record

Format	4A4	I4	I4	56X
Data Element	Matrix Name	# of Rows	# of Columns	Filler

The data records each contain a row subscript, a column subscript, and seven data elements. The format of a data record, in FORTRAN notation, is:

Data Record

Format	I4	I4	7F10.1
Data Element	Row	Column	Seven Data Elements

All data elements are in millions of dollars.

The last record in the data set contains a "-1" in the row position. Table 4 contains the first several records of this data set.

In order to conserve space, the data set has been written with "0" data elements suppressed when possible. The user must have a clear understanding of the zero suppression algorithm to successfully read the data set. Please see the description of Data Set 2 for an explanation of that algorithm.

Physical Characteristics

The data set is written onto a 9-track, 1600 b.p.i., standard label tape. The data set name is "WGE1MUP.TRANS108," the record length is 80 bytes and the block size is 3120 bytes. The matrix is the fourth data set on the tape volume.

TABLE 4: SAMPLE DATA RECORDS FROM THE 108-LEVEL TRANSACTIONS MATRIX (1967)

TRANS	108		108	108	1	1			
2	1	5.0	1.3	5.0	31.4	73.9	1.0	3.5
2	8	15.4	5.0	45.9	27.5	0.7	12.5	18.8
2	15	4.8	567.0	6.2	59.2	134.4	370.4	6.1
2	22	142.2	50.9	473.8	15.3	0.0	0.0	0.0
2	31	30.1	15.6	23.3	50.2	18.0	8.4	20.9
2	38	2.4	24.4	257.1	7.3	51.4	11.1	24.8
2	45	3.6	44.6	1.2	17.9	6.0	79.2	25.6
2	52	4.7	160.0	52.8	48.5	11.8	363.4	49.8
2	59	2.2	5.5	31.7	98.8	291.4	69.5	2.3
2	66	40.2	36.4	37.9	11.9	12.9	22.1	5.9
2	73	28.1	14.9	26.7	10.3	0.0	13.1	26.8
2	80	17.4	11.3	0.0	0.0	7.6	104.5	62.8
2	87	22.0	5.7	1.3	18.5	80.3	0.0	0.0
2	95	444.9	0.4	629.7	178.2	90.1	0.0	18.1
2	102	20.3	261.1	2.5	3.6	0.0	0.0	0.0
3	1	10.7	0.0	8.4	0.0	3.1	0.0	0.0
3	8	4.4	0.0	0.5	0.0	0.1	2.6	0.0
3	18	1.9	0.0	0.5	0.0	0.0	0.0	0.0
3	37	0.3	0.0	0.0	0.0	0.0	0.0	0.0
3	45	0.8	2.5	0.0	7.4	43.2	0.5	0.5
3	52	0.9	0.0	0.0	0.0	0.0	0.0	2.2
3	60	1.4	0.1	0.0	0.0	0.0	0.0	5.7
3	67	1.6	9.5	0.0	2.4	0.0	0.9	0.0
3	76	0.6	0.0	1.7	0.0	0.0	0.0	0.0
3	85	25.9	31.7	3.9	6.1	0.0	3.2	0.0
3	95	8.1	0.0	1.0	0.0	0.0	0.0	0.0
4	1	2.8	0.2	0.2	142.2	1631.3	0.4	0.1
4	8	3.2	0.7	8.9	26.6	0.1	1.1	28.4
4	15	14.7	16.8	0.4	28.4	157.1	5.3	1.1
4	22	60.5	1.4	25.2	1.4	34.1	1.2	1.1
4	29	0.1	0.1	0.1	0.1	0.2	0.9	0.0
4	36	0.2	10.4	0.3	2.2	159.9	20.4	2.1
4	43	5.0	4.6	2.8	13.1	0.6	1.4	0.4
4	50	1016.2	76.9	138.0	20.5	15.0	16.5	0.9
4	57	2.1	28.9	0.1	2.2	3.7	18.1	3.3
4	64	5.2	1.3	8.0	10.7	12.5	0.5	0.7
4	71	0.8	0.5	1.1	0.9	1.6	0.4	0.0
4	78	2.1	29.4	0.5	0.8	0.0	0.0	0.2
4	85	3.7	3.7	0.7	19.3	0.1	19.0	27.6
4	94	24.5	154.6	8.2	9.0	14.0	13.4	0.0
4	101	2.1	2.4	21.1	2.6	4.4	0.0	0.0
5	1	0.7	0.1	0.7	10.2	2078.8	0.4	4.8
5	8	93.9	7.3	27.1	1.2	0.0	0.8	3.5
5	15	25.6	35.5	1.0	52.2	369.7	44.5	0.3
5	22	8648.5	2.9	532.1	20.3	1397.2	6.1	10.2
5	29	0.3	0.2	0.1	0.2	0.1	0.6	0.1
5	36	0.1	1.8	0.1	1.5	390.8	26.4	1.3
5	43	8.6	8.2	0.1	2.8	0.0	0.5	0.9
5	50	115.8	28.9	222.0	4.1	2.2	21.7	0.9
5	57	2.7	7.0	0.1	3.0	0.8	3.4	3.9
5	64	13.1	106.0	1.5	2.0	10.5	0.3	0.6
5	71	0.6	0.4	1.3	1.0	1.1	0.5	0.0
5	78	0.5	1.0	0.2	0.4	0.0	0.0	0.2
5	85	2.4	4.9	0.5	0.2	0.0	4.1	39.0
5	94	7.3	270.7	3.6	75.7	12.3	7.8	0.0
5	101	0.3	14.1	89.4	6.3	20.9	0.0	13.8
6	4	7.8	174.2	2.0	0.8	0.0	0.0	0.0
6	15	0.3	0.0	0.0	1.6	0.0	0.6	0.0

Data Set 5: The 108-Level Direct Requirements (A) Matrix (1967)

This matrix represents the direct requirements per dollar of gross output (A coefficients) of the primary information economy as defined by Porat. The 108 industries of the matrix are the same as those used in the transactions table; please see Table 16 for the industry scheme. Sources and Methods and The Technology Matrix (1967), Office of Telecommunications Special Reports 77-12-3 and 77-12-5, contain a description of the sources and methods used to create the matrix.

Data Format

The data set is composed of card image records. The first record in the data set is an identification record containing the matrix name and size. The format of the identification record, in FORTRAN notation, is:

Identification Record

Format	4A4	I4	I4	56X
Data Element	Matrix Name	# of Rows	# of Columns	Filler

The data records each contain a row subscript, a column subscript, and seven data elements. The format of a data record, in FORTRAN notation, is:

Data Record

Format	I4	I4	7F10.5
Data Element	Row	Column	Seven Data Elements

The last record in the data set contains a "-1" in the row position. Table 5 contains the first several records of this data set.

In order to conserve space, the data set has been written with "0" data elements suppressed when possible. The user must have a clear understanding of the zero suppression algorithm to successfully read the data set. Please see the description of Data Set 2 for an explanation of that algorithm.

Physical Characteristics

The data set is written onto a 9-track, 1600 b.p.i., standard label tape. The data set name is "WGE1MUP.A108," the record length is 80 bytes and the block size is 3120 bytes. The matrix is the fifth data set on the tape volume.

TABLE 5: SAMPLE DATA RECORDS FROM THE 108-LEVEL DIRECT REQUIREMENTS MATRIX (1967)

A108			108 108 1	1				
2	1	0.00041	0.00017	0.00439	0.00691	0.00358	0.00261	0.00355
2	8	0.00230	0.00332	0.00265	0.00338	0.00287	0.00282	0.00433
2	15	0.00286	0.02934	0.00195	0.00261	0.00288	0.01573	0.00421
2	22	0.00301	0.01035	0.01929	0.00339	0.0	0.0	0.0
2	31	0.01726	0.00951	0.00737	0.00334	0.00764	0.00818	0.00031
2	38	0.00015	0.00227	0.00287	0.00092	0.00322	0.00233	0.00110
2	45	0.00084	0.00346	0.00221	0.00349	0.00343	0.00623	0.00424
2	52	0.00281	0.00702	0.00627	0.00385	0.00405	0.01347	0.00361
2	59	0.00202	0.00130	0.00834	0.00896	0.00918	0.00333	0.00068
2	66	0.00321	0.00392	0.00303	0.00311	0.00267	0.00370	0.00232
2	73	0.00324	0.00315	0.00342	0.00261	0.0	0.00248	0.00317
2	80	0.00319	0.00274	0.0	0.0	0.00263	0.00239	0.00286
2	87	0.00282	0.00316	0.00277	0.00240	0.00152	0.0	0.0
2	95	0.00316	0.00033	0.00702	0.00921	0.00941	0.0	0.00123
2	102	0.00429	0.01088	0.00079	0.00037	0.0	0.0	0.0
3	1	0.00088	0.0	0.00739	0.0	0.00015	0.0	0.0
3	8	0.00066	0.0	0.00003	0.0	0.00041	0.00059	0.0
3	18	0.00008	0.0	0.00002	0.0	0.0	0.0	0.0
3	37	0.00000	0.0	0.0	0.0	0.0	0.0	0.0
3	45	0.00019	0.00019	0.0	0.00144	0.02469	0.00005	0.00008
3	52	0.00054	0.0	0.0	0.0	0.0	0.0	0.00016
3	60	0.00033	0.00003	0.0	0.0	0.0	0.0	0.00045
3	67	0.00017	0.00076	0.0	0.00050	0.0	0.00035	0.0
3	76	0.00015	0.0	0.00032	0.0	0.0	0.0	0.0
3	85	0.00059	0.00144	0.00050	0.00339	0.0	0.00041	0.0
3	95	0.00006	0.0	0.00001	0.0	0.0	0.0	0.0
4	1	0.00023	0.00003	0.00018	0.03289	0.07911	0.00104	0.00010
4	8	0.00048	0.00046	0.00051	0.00326	0.00041	0.00025	0.00654
4	15	0.00875	0.00087	0.00012	0.00125	0.00337	0.00023	0.00076
4	22	0.00128	0.00028	0.00103	0.00031	0.01308	0.00004	0.00004
4	29	0.00005	0.00004	0.00006	0.00006	0.00006	0.00006	0.0
4	36	0.00019	0.00015	0.00002	0.00020	0.00179	0.00257	0.00013
4	43	0.00107	0.00020	0.00065	0.00101	0.00111	0.00027	0.00023
4	50	0.07993	0.01275	0.08257	0.00090	0.00178	0.00131	0.00031
4	57	0.00008	0.00209	0.00009	0.00052	0.00097	0.00164	0.00010
4	64	0.00025	0.00039	0.00064	0.00115	0.00100	0.00013	0.00014
4	71	0.00013	0.00020	0.00013	0.00019	0.00021	0.00010	0.0
4	78	0.00040	0.00348	0.00009	0.00019	0.0	0.0	0.00007
4	85	0.00008	0.00017	0.00009	0.01071	0.00021	0.00247	0.00052
4	94	0.00066	0.00110	0.00676	0.00010	0.00072	0.00140	0.0
4	101	0.00014	0.00051	0.00088	0.00082	0.00046	0.0	0.0
5	1	0.00006	0.00001	0.00062	0.00224	0.10410	0.00104	0.00487
5	8	0.01405	0.00485	0.00156	0.00015	0.0	0.00018	0.00081
5	15	0.01523	0.00184	0.00031	0.00230	0.00793	0.00189	0.00021
5	22	0.18308	0.00059	0.02166	0.00450	0.53600	0.00020	0.00036
5	29	0.00015	0.00007	0.00006	0.00012	0.00003	0.00004	0.00004
5	36	0.00010	0.00003	0.00001	0.00014	0.00437	0.00333	0.00008
5	43	0.00184	0.00036	0.00002	0.00022	0.0	0.00010	0.00051
5	50	0.00911	0.00479	0.13282	0.00018	0.00026	0.00172	0.00031
5	57	0.00010	0.00051	0.00009	0.00071	0.00021	0.00031	0.00012
5	64	0.00063	0.03160	0.00012	0.00021	0.00084	0.00008	0.00012
5	71	0.00010	0.00016	0.00015	0.00021	0.00014	0.00013	0.0
5	78	0.00009	0.00012	0.00004	0.00010	0.0	0.0	0.00007
5	85	0.00005	0.00022	0.00006	0.00011	0.0	0.00053	0.00074
5	94	0.00020	0.00192	0.00297	0.00084	0.00064	0.00081	0.0
5	101	0.00002	0.00298	0.00373	0.00198	0.00217	0.0	0.00123
6	4	0.00172	0.00845	0.00522	0.00081	0.0	0.0	0.0
6	15	0.00018	0.0	0.0	0.00007	0.0	0.00002	0.0

Data Set 6: The 108-Level Total Requirements (Inverse) Matrix (1967)

This data set contains the primary information economy total requirements (Inverse) matrix. The 108 industries of this matrix match those of the transactions and A matrices in Data Set 4 and 5. A listing of the industries appears in Table 16, Sources and Methods and The Total Effect Matrix, Numbers 77-12-3 and 77-12-6 of the Office of Telecommunications Special Report Series, contain a discussion of the methodology used to create this matrix.

Data Format

The data set is composed of card image records. The first record in the data set is an identification record containing the matrix name and size. The format of the identification record, in FORTRAN notation, is:

	Identification Record			
Format	4A4	I4	I4	56X
Data Element	Matrix Name	# of Rows	# of Columns	Filler

The data records each contain a row subscript, a column subscript, and seven data elements. The format of a data record, in FORTRAN notation, is:

	Data Record		
Format	I4	I4	7F10.5
Data Element	Row	Column	Seven Data Elements

The last record in the data set contains a "-1" in the row position. Table 6 contains the first several records of this data set.

In order to conserve space, the data set has been written with "0" data elements suppressed when possible. The user must have a clear understanding of the zero suppression algorithm to successfully read the data set. Please see the description of Data Set 2 for an explanation of that algorithm.

Physical Characteristics

The data set is written onto a 9-track, 1600 b.p.i., standard label tape. The data set name is "WGE1MUP.INV108," the record length is 80 bytes and the block size is 3120 bytes. The matrix is the sixth data set on the tape volume.

TABLE 6: SAMPLE DATA RECORDS FROM THE 103-LEVEL TOTAL REQUIREMENTS MATRIX (1967)

INV108		108	108	1	1			
1	1	1.00000	0.0	0.0	0.0	0.0	0.0	0.0
2	1	0.00638	1.00440	0.00959	0.01221	0.00879	0.01094	0.00877
2	8	0.00712	0.00787	0.00706	0.00830	0.00689	0.00782	0.00823
2	15	0.00813	0.03080	0.00904	0.00537	0.00688	0.01853	0.00798
2	22	0.00810	0.01898	0.02222	0.00491	0.00927	0.00399	0.00450
2	29	0.00209	0.00266	0.02159	0.01404	0.01165	0.00601	0.01188
2	36	0.01143	0.00614	0.00422	0.00735	0.00736	0.00361	0.00955
2	43	0.00871	0.00630	0.00734	0.00753	0.00675	0.00842	0.00906
2	50	0.01169	0.01116	0.00829	0.01422	0.01404	0.00998	0.01152
2	57	0.01940	0.00930	0.00703	0.00589	0.01232	0.01443	0.01580
2	64	0.00872	0.00906	0.01053	0.01036	0.00912	0.00930	0.00888
2	71	0.00988	0.00843	0.00796	0.00858	0.00896	0.00720	0.0
2	78	0.00902	0.00832	0.00950	0.00797	0.0	0.0	0.00790
2	85	0.00878	0.00778	0.00897	0.00845	0.00713	0.00721	0.00462
2	94	0.00242	0.00573	0.00326	0.00869	0.01303	0.01289	0.0
2	101	0.00516	0.00749	0.01364	0.00287	0.00309	0.0	0.00064
3	1	0.00119	0.00011	1.00820	0.00007	0.00021	0.00003	0.00007
3	8	0.00084	0.00008	0.00014	0.00007	0.00051	0.00080	0.00005
3	15	0.00011	0.00001	0.00002	0.00011	0.00002	0.00005	0.00006
3	22	0.00007	0.00002	0.00003	0.00001	0.00019	0.00003	0.00003
3	29	0.00002	0.00003	0.00002	0.00003	0.00003	0.00002	0.00003
3	36	0.00002	0.00019	0.00009	0.00031	0.00004	0.00002	0.00003
3	43	0.00004	0.00004	0.00025	0.00033	0.00017	0.00166	0.02590
3	50	0.00013	0.00016	0.00061	0.00003	0.00004	0.00007	0.00004
3	57	0.00002	0.00023	0.00003	0.00041	0.00008	0.00004	0.00005
3	64	0.00004	0.00006	0.00062	0.00026	0.00087	0.00018	0.00062
3	71	0.00010	0.00049	0.00008	0.00008	0.00012	0.00023	0.0
3	78	0.00052	0.00007	0.00014	0.00007	0.0	0.0	0.00012
3	85	0.00095	0.00196	0.00067	0.00359	0.00006	0.00054	0.00004
3	94	0.00002	0.00008	0.00001	0.00003	0.00005	0.00005	0.0
3	101	0.00014	0.00002	0.00006	0.00001	0.00003	0.0	0.00005
4	1	0.00440	0.00227	0.00422	1.05407	0.10469	0.00588	0.00284
4	8	0.00571	0.00410	0.00421	0.00756	0.00343	0.00413	0.01122
4	15	0.01836	0.00262	0.00278	0.00467	0.00998	0.00280	0.00416
4	22	0.02462	0.00357	0.00543	0.00162	0.09573	0.00291	0.00243
4	29	0.00134	0.00374	0.00176	0.00154	0.00163	0.00134	0.00275
4	36	0.00204	0.00382	0.00217	0.00294	0.00809	0.00738	0.00366
4	43	0.00566	0.00354	0.00547	0.00385	0.00420	0.00399	0.00351
4	50	0.09829	0.05516	0.11148	0.00514	0.00876	0.01000	0.00522
4	57	0.00254	0.00734	0.00472	0.00538	0.00670	0.00619	0.00209
4	64	0.00231	0.00778	0.00330	0.00360	0.00418	0.00246	0.00269
4	71	0.00229	0.00266	0.00213	0.00239	0.00250	0.00207	0.0
4	78	0.00401	0.00671	0.00498	0.00385	0.0	0.0	0.00304
4	85	0.00272	0.00241	0.00254	0.01763	0.00384	0.00848	0.00234
4	94	0.00220	0.00425	0.01069	0.00152	0.00388	0.00420	0.0
4	101	0.00209	0.00302	0.00367	0.00289	0.00278	0.0	0.00459
5	1	0.02127	0.00772	0.01334	0.01471	1.13543	0.02007	0.01529
5	8	0.02992	0.01612	0.01403	0.01205	0.00993	0.01528	0.01224
5	15	0.03453	0.01224	0.01755	0.01968	0.04299	0.01729	0.01234
5	22	0.22586	0.02101	0.03629	0.00905	0.62465	0.01140	0.01261
5	29	0.00523	0.00602	0.01082	0.00721	0.00861	0.00723	0.00959
5	36	0.00837	0.01764	0.00967	0.01106	0.02382	0.02225	0.01084
5	43	0.01351	0.01140	0.01122	0.00879	0.00869	0.01203	0.01126
5	50	0.02264	0.02225	0.16400	0.01391	0.01517	0.04673	0.01949
5	57	0.01201	0.01422	0.01539	0.01478	0.01145	0.01142	0.01053
5	64	0.00933	0.04954	0.01124	0.00936	0.01164	0.01010	0.01292
5	71	0.01031	0.01183	0.00905	0.00984	0.01035	0.00917	0.0
5	78	0.01379	0.00972	0.02080	0.01137	0.0	0.0	0.01075

Data Set 7: The 108-Level Final Demand Matrix (1967)

Data Set 7 contains final demand data for the primary level of the information economy. The ten components of final demand, plus total final demand, are presented. The 108 industries which compose this matrix are listed in Table 16. Sources and Methods, Number 77-12-3, of the Office of Telecommunications Special Report Series, contains a discussion of the methodology used to create this matrix.

Data Format

The data set is composed of card image records. The first record in the data set is an identification record containing the matrix name and size. The format of the identification record, in FORTRAN notation, is:

	Identification Record			
Format	4A4	I4	I4	56X
Data Element	Matrix Name	# of Rows	# of Columns	Filler

The data records each contain a row subscript, a column subscript, and seven data elements. The format of a data record, in FORTRAN notation, is:

	Data Record		
Format	I4	I4	7F10.1
Data Element	Row	Column	Seven Data Elements

All data elements are in millions of dollars.

The final demand elements of an industry occupy two consecutive data records. The first data record contains these elements of final demand:

Data Element	Final Demand
1	Total final demand
2	Personal consumption
3	Gross private fixed capital formation
4	Net inventory change
5	Net export
6	Federal Government, defense
7	Federal Government, other

The second data record contains these elements of final demand:

Data Element	Final Demand
1	State & local government, education
2	State & local government, health, welfare, & sanitation
3	State & local government, safety
4	State & local government, other
5-7	Blank

The row and column subscripts appear on both records, preceding the seven data elements.

The last record in the data set contains a "-1" in the row position. Table 7 contains the first several records of this data set.

In order to conserve space, the data set has been written with "0" data elements suppressed when possible. The user must have a clear understanding of the zero suppression algorithm to successfully read the data set. Please see the description of Data Set 2 for an explanation of that algorithm.

Physical Characteristics

The data set is written onto a 9-track, 1600 b.p.i., standard label tape. The data set name is "WGE1MUP.FDS108," the record length is 80 bytes and the block size is 3120 bytes. The matrix is the seventh data set on the tape volume.

TABLE 7: SAMPLE DATA RECORDS FROM THE 108-LEVEL FINAL DEMAND MATRIX (1967)

FDS	108	108	11	1	1			
1	1	12181.0	0.0	5673.9	0.0	15.1	93.6	225.4
1	8	5430.0	0.0	266.0	477.0	0.0	0.0	0.0
2	1	1423.8	0.0	0.0	0.0	0.0	0.0	186.5
2	8	764.5	149.9	70.6	252.3	0.0	0.0	0.0
3	1	943.0	0.0	649.1	20.4	10.6	11.7	31.7
3	8	161.4	3.7	0.7	53.7	0.0	0.0	0.0
4	1	365.7	50.3	0.0	106.7	81.6	14.7	23.3
4	8	40.1	16.2	3.4	29.4	0.0	0.0	0.0
5	1	5599.0	4071.9	0.0	273.7	243.9	143.9	32.0
5	8	715.1	11.1	2.8	104.6	0.0	0.0	0.0
6	1	17.3	0.0	0.0	4.9	9.8	0.0	1.3
6	8	1.3	0.0	0.0	0.0	0.0	0.0	0.0
7	1	784.6	0.0	612.8	34.7	113.8	7.9	9.1
7	8	5.9	0.0	0.0	0.4	0.0	0.0	0.0
8	1	5022.6	112.1	3352.1	155.5	709.7	242.5	290.6
8	8	118.5	9.6	0.8	31.2	0.0	0.0	0.0
9	1	1086.0	0.0	629.0	19.8	166.2	207.9	50.1
9	8	2.5	0.5	0.6	9.4	0.0	0.0	0.0
10	1	13721.5	3645.9	2936.8	600.1	580.2	519.2	657.3
10	8	93.3	3.3	14.0	11.4	0.0	0.0	0.0
11	1	1434.6	170.7	18.3	139.1	372.0	617.1	103.2
11	8	4.2	0.5	8.0	1.5	0.0	0.0	0.0
12	1	194.8	0.0	133.3	7.2	29.2	8.8	2.4
12	8	1.6	12.3	0.0	0.0	0.0	0.0	0.0
13	1	2200.6	415.4	614.6	77.7	460.9	478.8	82.6
13	8	17.4	34.5	3.9	14.8	0.0	0.0	0.0
14	1	2579.2	713.2	920.0	78.0	313.3	340.3	70.4
14	8	65.4	56.3	4.5	17.8	0.0	0.0	0.0
15	1	516.5	203.6	241.4	17.7	34.7	1.4	1.1
15	8	23.1	0.0	-7.6	1.1	0.0	0.0	0.0
16	1	10090.8	7836.8	1095.7	0.0	139.6	405.1	138.4
16	8	135.7	43.8	42.8	252.9	0.0	0.0	0.0
17	1	7.2	0.0	0.0	0.0	0.0	0.0	0.0
17	8	7.2	0.0	0.0	0.0	0.0	0.0	0.0
18	1	15552.8	13531.0	1014.0	1[illegible]1.3	516.3	230.3	50.4
18	8	25.4	41.5	11.7	30.9	0.0	0.0	0.0
19	1	25112.8	24595.7	4.0	-0.7	90.4	17.3	36.5
19	8	172.5	39.4	6.6	151.1	0.0	0.0	0.0
20	1	9170.4	7841.7	777.8	0.0	213.8	47.8	60.4
20	8	62.1	39.9	9.3	117.6	0.0	0.0	0.0
21	1	1112.3	1105.2	0.0	0.0	0.0	1.2	-0.5
21	8	1.9	2.6	0.7	1.2	0.0	0.0	0.0
22	1	7471.3	4142.0	0.0	0.0	408.4	1253.8	585.8
22	8	429.7	285.6	66.4	299.6	0.0	0.0	0.0
23	1	2153.6	1743.9	0.0	-56.8	322.1	108.7	5.5
23	8	24.1	0.3	2.1	3.7	0.0	0.0	0.0
24	1	23027.1	20629.4	0.0	0.0	0.0	901.0	1000.4
24	8	100.7	322.6	32.1	40.9	0.0	0.0	0.0
25	1	1498.8	1053.1	0.0	0.0	14.4	187.1	46.5
25	8	23.2	64.9	9.0	100.6	0.0	0.0	0.0
26	1	469.7	0.0	0.0	0.0	0.0	98.8	76.9
26	8	142.9	29.6	14.2	107.3	0.0	0.0	0.0
27	1	2018.0	1811.2	0.0	129.0	55.0	4.6	3.7
27	8	1.2	10.2	1.2	1.9	0.0	0.0	0.0
28	1	6848.9	3756.2	0.0	1030.7	3183.8	7.2	-1201.8
28	8	16.3	9.4	4.3	42.8	0.0	0.0	0.0
29	1	249.1	448.6	0.0	2.3	47.4	4.9	-259.5
29	8	1.2	1.9	0.8	1.5	0.0	0.0	0.0

Data Set 8: The 108-Level Total Output Matrix (1967)

The output generated by total final demand, and the output generated by each component of final demand for the primary information economy, are presented in this matrix. The 108 industries which make up this matrix are listed in Table 16. A description of the methodology used to create this matrix is given in Sources and Methods, Number 77-12-3 of the Office of Telecommunications Special Report Series.

Data Format

The data set is composed of card image records. The first record in the data set is an identification record containing the matrix name and size. The format of the identification record, in FORTRAN notation, is:

	Identification Record			
Format	4A4	I4	I4	56X
Data Element	Matrix Name	# of Rows	# of Columns	Filler

The data records each contain a row subscript, a column subscript, and seven data elements. The format of a data record, in FORTRAN notation, is:

	Data Record		
Format	I4	I4	7F10.1
Data Element	Row	Column	Seven Data Elements

All data elements are in millions of dollars.

The components of total output occupy two consecutive data records. The first data record contains these elements of generated output:

Data Element	Output Generated By
1	Total final demand
2	Personal consumption
3	Gross private fixed capital formation
4	Net inventory
5	Net exports
6	Federal Government, defense
7	Federal Government, other

The second data record contains these elements of generated output:

Data Element	Output Generated By
1	State & local government, education
2	State & local government, health, education and welfare
3	State & local government, safety
4	State & local government, other
5-7	Blank

The row and column subscripts appear on both records, preceding the seven data elements.

The last record in the data set contains a "-1" in the row position. Table 8 contains the first several records of this data set.

In order to conserve space, the data set has been written with "0" data elements suppressed when possible. The user must have a clear understanding of the zero suppression algorithm to successfully read the data set. Please see the description of Data Set 2 for an explanation of that algorithm.

Physical Characteristics

The data set is written onto a 9-track, 1600 b.p.i., standard label tape. The data set name is "WGE1MUP.TOUTS108," the record length is 80 bytes and the block size is 3120 bytes. The matrix is the eighth data set on the tape volume.

TABLE 8: SAMPLE DATA RECORDS FROM THE 108-LEVEL TOTAL OUTPUT MATRIX (1967)

TOUTS	108	108	11	1	1			
1	1	12181.0	0.0	5673.9	0.0	15.1	93.6	225.4
1	8	5430.0	0.0	266.0	477.0	0.0	0.0	0.0
2	1	7679.0	4233.4	842.0	105.0	307.0	357.4	296.7
2	8	852.9	215.3	80.5	388.7	0.0	0.0	0.0
3	1	1136.9	57.2	723.9	26.4	21.1	35.2	36.6
3	8	172.2	4.7	1.1	58.4	0.0	0.0	0.0
4	1	4539.2	2873.1	424.7	204.3	317.8	221.2	99.4
4	8	192.8	58.0	11.8	135.9	0.0	0.0	0.0
5	1	20605.4	14039.4	1751.4	484.1	867.2	1030.8	401.0
5	8	1196.2	211.1	43.8	580.5	0.0	0.0	0.0
6	1	382.6	247.4	35.2	14.3	29.2	18.5	8.1
6	8	15.5	3.6	0.7	10.0	0.0	0.0	0.0
7	1	985.9	73.6	702.1	40.1	134.3	12.7	11.3
7	8	8.6	0.7	0.1	2.4	0.0	0.0	0.0
8	1	6679.9	661.6	3996.0	197.5	860.1	386.6	356.5
8	8	150.2	16.9	2.3	52.3	0.0	0.0	0.0
9	1	1504.1	109.1	753.6	35.7	205.7	307.4	67.0
9	8	7.3	2.6	1.1	14.5	0.0	0.0	0.0
10	1	17329.5	4680.1	3738.8	757.2	842.8	6242.5	840.3
10	8	131.4	14.8	18.7	62.9	0.0	0.0	0.0
11	1	8145.0	2070.0	1690.5	400.1	857.3	2537.1	442.3
11	8	67.3	17.2	16.1	47.0	0.0	0.0	0.0
12	1	243.7	20.9	148.1	8.4	33.6	13.0	3.4
12	8	2.2	13.4	0.1	0.7	0.0	0.0	0.0
13	1	4426.6	1026.2	1316.7	154.9	641.9	876.4	-164.4
13	8	86.7	53.7	8.6	97.0	0.0	0.0	0.0
14	1	4338.3	1781.5	1139.4	103.8	405.6	524.2	124.6
14	8	107.4	86.6	8.5	56.7	0.0	0.0	0.0
15	1	1679.3	891.2	425.2	33.5	83.9	76.2	34.4
15	8	71.1	16.3	-3.6	51.2	0.0	0.0	0.0
16	1	19317.5	13862.8	2433.9	142.0	565.1	1020.8	312.5
16	8	302.3	132.0	57.6	488.6	0.0	0.0	0.0
17	1	3172.9	2012.8	441.0	39.5	141.9	205.5	79.0
17	8	91.3	45.1	8.6	108.2	0.0	0.0	0.0
18	1	22693.7	17475.3	2610.1	231.9	892.7	627.4	170.7
18	8	191.9	111.0	24.5	358.1	0.0	0.0	0.0
19	1	46596.5	41266.2	2142.8	214.4	812.4	676.2	230.6
19	8	462.9	172.0	30.4	588.7	0.0	0.0	0.0
20	1	23516.6	18135.0	2407.2	247.5	928.9	706.6	225.4
20	8	262.2	167.2	29.2	407.3	0.0	0.0	0.0
21	1	1447.5	1352.7	32.7	4.3	11.9	20.3	4.7
21	8	5.4	6.9	1.2	7.3	0.0	0.0	0.0
22	1	47198.4	29895.4	6626.1	592.9	2134.6	3081.1	1175.8
22	8	1261.2	674.9	129.6	1626.9	0.0	0.0	0.0
23	1	4913.0	3768.1	199.2	-68.0	558.1	259.3	42.8
23	8	74.2	20.4	6.9	51.9	0.0	0.0	0.0
24	1	24559.1	21699.8	197.7	20.7	59.8	981.4	1024.0
24	8	126.2	336.6	34.2	78.7	0.0	0.0	0.0
25	1	4510.4	3238.7	322.9	37.1	125.5	337.0	96.7
25	8	78.2	96.6	13.9	163.9	0.0	0.0	0.0
26	1	2604.7	1558.2	236.0	25.7	80.0	204.9	109.6
26	8	175.0	48.0	17.1	150.1	0.0	0.0	0.0
27	1	30563.3	27666.4	427.0	620.1	1155.1	226.0	98.0
27	8	75.1	156.5	32.0	107.2	0.0	0.0	0.0
28	1	28098.3	22469.6	543.9	1454.2	4150.5	233.2	-1158.3
28	8	93.9	114.6	25.5	171.3	0.0	0.0	0.0
29	1	1943.5	1333.6	445.2	36.7	134.3	56.4	-232.4
29	8	34.0	19.7	3.2	112.9	0.0	0.0	0.0

Data Set 9: The 190-Level Transactions Matrix (1967)

This matrix is the "information economy" transactions table, showing detail at both the primary and secondary levels of information production. Table 18 lists the 190-level industry sectoring scheme. This table was adapted from the 108-level transactions table by creating new industries for the "information" activities of the non-information industries. A more detailed explanation of the methodology used in creating this matrix may be found in Sources and Methods, Number 77-12-3 of the Office of Telecommunications Special Report Series.

Data Format

The data set is composed of card image records. The first record in the data set is an identification record containing the matrix name and size. The format of the identification record, in FORTRAN notation, is:

Identification Record

Format	4A4	I4	I4	56X
Data Element	Matrix Name	# of Rows	# of Columns	Filler

The data records each contain a row subscript, a column subscript, and seven data elements. The format of a data record, in FORTRAN notation, is:

Data Record

Format	I4	I4	7F10.1
Data Element	Row	Column	Seven Data Elements

All data elements are in millions of dollars.

The last record in the data set contains a "-1" in the row position. Table 9 contains the first several records of this data set.

In order to conserve space, the data set has been written with "0" data elements suppressed when possible. The user must have a clear understanding of the zero suppression algorithm to successfully read the data set. Please see the description of Data Set 2 for an explanation of that algorithm.

Physical Characteristics

The data set is written onto a 9-track, 1600 b.p.i., standard label tape. The data set name is "WGE1MUP.TRANS190," the record length is 80 bytes and the block size is 3120 bytes. The matrix is the ninth data set on the tape volume.

TABLE 9: SAMPLE DATA RECORDS FROM THE 190-LEVEL TRANSACTIONS MATRIX (1967)

TRANS190		190	190	1	1			
2	1	5.0	1.3	5.0	31.4	73.9	1.0	3.5
2	8	15.4	5.0	45.9	27.5	0.7	12.5	18.8
2	15	4.8	567.0	6.2	59.2	134.4	370.4	6.1
2	22	142.2	50.9	473.8	15.3	0.0	0.0	0.0
2	31	30.1	15.6	23.3	50.2	18.0	8.4	20.9
2	38	2.4	24.4	257.1	7.3	51.4	11.1	24.8
2	45	3.6	44.6	1.2	17.9	6.0	79.2	25.6
2	52	4.7	160.0	52.8	48.5	11.8	363.4	49.8
2	59	2.2	5.5	31.7	98.8	291.4	69.5	2.3
2	66	40.2	36.4	37.9	11.9	12.9	22.1	5.9
2	73	28.1	14.9	26.7	10.3	0.0	13.1	26.8
2	80	17.4	11.3	0.0	0.0	7.6	104.5	62.8
2	87	22.0	5.7	1.3	18.5	80.3	0.0	0.0
2	95	444.9	0.4	629.7	178.2	90.1	0.0	18.1
2	102	20.3	261.1	2.5	3.6	0.0	0.0	0.0
3	1	10.7	0.0	8.4	0.0	3.1	0.0	0.0
3	8	4.4	0.0	0.5	0.0	0.1	2.6	0.0
3	18	1.9	0.0	0.5	0.0	0.0	0.0	0.0
3	37	0.3	0.0	0.0	0.0	0.0	0.0	0.0
3	45	0.8	2.5	0.0	7.4	43.2	0.6	0.5
3	52	0.9	0.0	0.0	0.0	0.0	0.0	2.2
3	60	1.4	0.1	0.0	0.0	0.0	0.0	5.7
3	67	1.6	9.5	0.0	2.4	0.0	0.9	0.0
3	76	0.6	0.0	1.7	0.0	0.0	0.0	0.0
3	85	25.9	31.7	3.9	6.1	0.0	3.2	0.0
3	95	8.1	0.0	1.0	0.0	0.0	0.0	0.0
4	1	2.8	0.2	0.2	142.2	1631.3	0.4	0.1
4	8	3.2	0.7	8.9	26.6	0.1	1.1	28.4
4	15	14.7	16.8	0.4	28.4	157.1	5.3	1.1
4	22	60.5	1.4	25.2	1.4	34.1	1.2	1.1
4	29	0.1	0.1	0.1	0.1	0.2	0.9	0.0
4	36	0.2	10.4	0.3	2.2	159.9	20.4	2.1
4	43	5.0	4.6	2.8	13.1	0.6	1.4	0.4
4	50	1016.2	76.9	138.0	20.5	15.0	16.5	0.9
4	57	2.1	28.9	0.1	2.2	3.7	18.1	3.3
4	64	5.2	1.3	8.0	10.7	12.5	0.5	0.7
4	71	0.8	0.5	1.1	0.9	1.6	0.4	0.0
4	78	2.1	29.4	0.5	0.8	0.0	0.0	0.2
4	85	3.7	3.7	0.7	19.3	0.1	19.0	27.6
4	94	24.5	154.6	8.2	9.0	14.0	13.4	0.0
4	101	2.1	2.4	21.1	2.6	4.4	0.0	0.0
5	1	0.7	0.1	0.7	10.2	2078.8	0.4	4.8
5	8	93.9	7.3	27.1	1.2	0.0	0.8	3.5
5	15	25.6	35.5	1.0	52.2	369.7	44.5	0.3
5	22	8648.5	2.9	532.1	20.3	1397.2	6.1	10.2
5	29	0.3	0.2	0.1	0.2	0.1	0.6	0.1
5	36	0.1	1.8	0.1	1.5	390.8	26.4	1.3
5	43	8.6	8.2	0.1	2.8	0.0	0.5	0.9
5	50	115.8	28.9	222.0	4.1	2.2	21.7	0.9
5	57	2.7	7.0	0.1	3.0	0.8	3.4	3.9
5	64	13.1	106.0	1.5	2.0	10.5	0.3	0.6
5	71	0.6	0.4	1.3	1.0	1.1	0.5	0.0
5	78	0.5	1.0	0.2	0.4	0.0	0.0	0.2
5	85	2.4	4.9	0.5	0.2	0.0	4.1	39.0
5	94	7.3	270.7	3.6	75.7	12.3	7.8	0.0
5	101	0.3	14.1	89.4	6.3	20.9	0.0	13.8
6	4	7.8	174.2	2.0	0.8	0.0	0.0	0.0
6	15	0.3	0.0	0.0	1.6	0.0	0.6	0.0

Data Set 10: The 190-Level Direct Requirements (A) Matrix (1967)

This matrix represents the direct requirements per dollar of gross output (A coefficients), of the primary and secondary levels of the information economy. The 190-level industry sectoring scheme is shown in Table 18. A further description of the matrix, and the methodology used to create it, may be found in Sources and Methods, Number 77-12-3, of the Office of Telecommunications Special Report Series.

Data Format

The data set is composed of card image records. The first record in the data set is an identification record containing the matrix name and size. The format of the identification record, in FORTRAN notation, is:

Identification Record

Format	4A4	I4	I4	56X
Data Element	Matrix Name	# of Rows	# of Columns	Filler

The data records each contain a row subscript, a column subscript, and seven data elements. The format of a data record, in FORTRAN notation, is:

Data Record

Format	I4	I4	7F10.5
Data Element	Row	Column	Seven Data Elements

The last record in the data set contains a "-1" in the row position. Table 10 contains the first several records of this data set.

In order to conserve space, the data set has been written with "0" data elements suppressed when possible. The user must have a clear understanding of the zero suppression algorithm to successfully read the data set. Please see the description of Data Set 2 for an explanation of that algorithm.

Physical Characteristics

The data set is written onto a 9-track, 1600 b.p.i., standard label tape. The data set name is "WGE1MUP.A190," the record length is 80 bytes and the block size is 3120 bytes. The matrix is the tenth data set on the tape volume.

TABLE 10: SAMPLE DATA RECORDS FROM THE 190-LEVEL DIRECT REQUIREMENTS MATRIX (1967)

A190		190	190 1	1				
2	1	0.00041	0.00017	0.00440	0.00692	0.00360	0.00261	0.00355
2	8	0.00231	0.00333	0.00265	0.00338	0.00287	0.00283	0.00434
2	15	0.00286	0.02934	0.00195	0.00261	0.00288	0.01573	0.00421
2	22	0.00301	0.01035	0.01929	0.00339	0.0	0.0	0.0
2	31	0.13202	0.07393	0.06099	0.02361	0.04604	0.06720	0.00138
2	38	0.00058	0.00343	0.02419	0.01004	0.03404	0.02160	0.00785
2	45	0.00711	0.03016	0.01622	0.02086	0.01796	0.02544	0.02148
2	52	0.00440	0.04142	0.03599	0.01171	0.01954	0.11584	0.01994
2	59	0.01964	0.00809	0.03880	0.04660	0.06528	0.03295	0.00420
2	66	0.01793	0.02262	0.01715	0.01871	0.01511	0.01833	0.01081
2	73	0.01442	0.01315	0.01567	0.01043	0.0	0.01429	0.01113
2	80	0.01434	0.01258	0.0	0.0	0.01108	0.02204	0.00627
2	87	0.01768	0.01069	0.01024	0.01047	0.00709	0.0	0.0
2	95	0.00761	0.00047	0.06437	0.06151	0.01081	0.0	0.00789
2	102	0.01536	0.02921	0.00158	0.00178	0.0	0.0	0.0
3	1	0.00088	0.0	0.00739	0.0	0.00015	0.0	0.0
3	8	0.00066	0.0	0.00003	0.0	0.00041	0.00059	0.0
3	18	0.00008	0.0	0.00002	0.0	0.0	0.0	0.0
3	37	0.00002	0.0	0.0	0.0	0.0	0.0	0.0
3	45	0.00158	0.00169	0.0	0.00862	0.12934	0.00019	0.00042
3	52	0.00084	0.0	0.0	0.0	0.0	0.0	0.00088
3	60	0.00206	0.00012	0.0	0.0	0.0	0.0	0.00254
3	67	0.00099	0.00430	0.0	0.00281	0.0	0.00165	0.0
3	76	0.00061	0.0	0.00185	0.0	0.0	0.0	0.0
3	85	0.00546	0.00317	0.00314	0.01144	0.0	0.00181	0.0
3	95	0.00014	0.0	0.00010	0.0	0.0	0.0	0.0
4	1	0.00023	0.00003	0.00018	0.03135	0.07938	0.00104	0.00010
4	8	0.00048	0.00047	0.00051	0.00327	0.00041	0.00025	0.00655
4	15	0.00875	0.00087	0.00013	0.00125	0.00337	0.00023	0.00076
4	22	0.00128	0.00028	0.00103	0.00031	0.01308	0.00134	0.00049
4	29	0.00111	0.00030	0.00044	0.00047	0.00052	0.00042	0.0
4	36	0.00160	0.00069	0.00007	0.00031	0.01505	0.02806	0.00139
4	43	0.00973	0.00146	0.00553	0.00886	0.00811	0.00163	0.00120
4	50	0.32644	0.06451	0.12921	0.00531	0.01022	0.00399	0.00149
4	57	0.00067	0.01157	0.00089	0.00324	0.00453	0.00854	0.00074
4	64	0.00247	0.00238	0.00357	0.00665	0.00566	0.00079	0.00082
4	71	0.00066	0.00092	0.00056	0.00079	0.00094	0.00040	0.0
4	78	0.00229	0.01221	0.00041	0.00089	0.0	0.0	0.00029
4	85	0.00078	0.00037	0.00056	0.03621	0.00079	0.01075	0.00244
4	94	0.00713	0.00264	0.00968	0.00092	0.00483	0.00161	0.0
4	101	0.00092	0.00182	0.00236	0.00164	0.00217	0.0	0.0
5	1	0.00006	0.00001	0.00062	0.00225	0.10116	0.00104	0.00487
5	8	0.01406	0.00486	0.00157	0.00015	0.0	0.00018	0.00081
5	15	0.01523	0.00184	0.00031	0.00230	0.00793	0.00139	0.00021
5	22	0.18308	0.00059	0.02166	0.00450	0.53601	0.00681	0.00451
5	29	0.00333	0.00060	0.00044	0.00095	0.00026	0.00028	0.00026
5	36	0.00080	0.00012	0.00002	0.00021	0.03677	0.03631	0.00086
5	43	0.01673	0.00259	0.00020	0.00189	0.0	0.00058	0.00269
5	50	0.03720	0.02424	0.20787	0.00106	0.00150	0.00524	0.00149
5	57	0.00086	0.00280	0.00089	0.00441	0.00098	0.00160	0.00087
5	64	0.00621	0.19378	0.00067	0.00124	0.00475	0.00047	0.00070
5	71	0.00050	0.00073	0.00067	0.00088	0.00065	0.00051	0.0
5	78	0.00055	0.00042	0.00016	0.00045	0.0	0.0	0.00029
5	85	0.00051	0.00049	0.00040	0.00038	0.0	0.00232	0.00344
5	94	0.00213	0.00463	0.00425	0.00774	0.00425	0.00094	0.0
5	101	0.00013	0.01067	0.01000	0.00397	0.01032	0.0	0.04023
6	4	0.00172	0.00848	0.00522	0.00081	0.0	0.0	0.0
6	15	0.00018	0.0	0.0	0.00007	0.0	0.00003	0.0

Data Set 11: The 190-Level Total Requirements (Inverse) Matrix (1967)

The total requirements (inverse) matrix showing detail at the primary and secondary levels of information production is contained in Data Set 11. The 190 industries which make up the matrix are listed in Table 18. A further description of the matrix may be found in Sources and Methods, Number 77-12-3 of the Office of Telecommunications Special Report Series.

Data Format

The data set is composed of card image records. The first record in the data set is an identification record containing the matrix name and size. The format of the identification record, in FORTRAN notation, is:

Identification Record

Format	4A4	I4	I4	56X
Data Element	Matrix Name	# of Rows	# of Columns	Filler

The data records each contain a row subscript, a column subscript, and seven data elements. The format of a data record, in FORTRAN notation, is:

Data Record

Format	I4	I4	7F10.5
Data Element	Row	Column	Seven Data Elements

The last record in the data set contains a "-1" in the row position. Table 11 contains the first several records of this data set.

In order to conserve space, the data set has been written with "0" data elements suppressed when possible. The user must have a clear understanding of the zero suppression algorithm to successfully read the data set. Please see the description of Data Set 2 for an explanation of that algotithm.

Physical Characteristics

The data set is written onto a 9-track, 1600 b.p.i., standard label tape. The data set name is "WGE1MUP.INV190," the record length is 80 bytes and the block size is 3120 bytes. The matrix is the eleventh data set on the tape volume.

TABLE 11: SAMPLE DATA RECORDS FROM THE 190-LEVEL TOTAL REQUIREMENTS MATRIX (1967)

INV190		190	190	1	1				
1	1	1.00000	0.0	0.0	0.0	0.0	0.0	0.0
2	1	0.00633	1.00431	0.00956	0.01216	0.00876	0.01075	0.00872
2	8	0.00709	0.00785	0.00704	0.00826	0.00686	0.00778	0.00818
2	15	0.00808	0.03079	0.00902	0.00535	0.00688	0.01851	0.00795
2	22	0.00808	0.01896	0.02220	0.00430	0.00922	0.01165	0.01167
2	29	0.00287	0.00180	0.13912	0.07790	0.06657	0.03300	0.04948
2	36	0.07300	0.00450	0.00191	0.00501	0.02900	0.01570	0.03696
2	43	0.02577	0.01096	0.00994	0.03328	0.01876	0.02412	0.02225
2	50	0.03176	0.02543	0.00924	0.04572	0.03973	0.01730	0.02336
2	57	0.12309	0.02325	0.02362	0.01154	0.04199	0.05002	0.06825
2	64	0.03623	0.00796	0.02123	0.02511	0.02013	0.02115	0.01820
2	71	0.02110	0.01386	0.01673	0.01670	0.01834	0.01277	0.0
2	78	0.01787	0.01407	0.01917	0.01548	0.0	0.0	0.01367
2	85	0.02508	0.00847	0.02032	0.01486	0.01396	0.01384	0.01074
2	94	0.00259	0.01083	0.00407	0.07073	0.07159	0.01275	0.0
2	101	0.01225	0.02064	0.03198	0.00316	0.00480	0.0	0.01099
2	109	0.00393	0.00441	0.00206	0.00263	0.02098	0.01382	0.01158
2	116	0.00676	0.01182	0.01140	0.00609	0.00417	0.00845	0.00729
2	123	0.00357	0.00943	0.00858	0.00624	0.00726	0.00749	0.00672
2	130	0.00837	0.00902	0.01160	0.01109	0.00825	0.01378	0.01356
2	137	0.00987	0.01133	0.01868	0.00917	0.00696	0.00585	0.01220
2	144	0.01436	0.01564	0.00861	0.00898	0.01043	0.01025	0.00904
2	151	0.00919	0.00879	0.00974	0.00833	0.00787	0.00849	0.00887
2	158	0.00715	0.0	0.00893	0.00813	0.00942	0.00790	0.0
2	166	0.00781	0.00868	0.00765	0.00890	0.00835	0.00705	0.00714
2	173	0.00458	0.0	0.0	0.00243	0.00572	0.00325	0.00844
2	180	0.01297	0.01287	0.0	0.00512	0.00744	0.01354	0.00421
2	187	0.00306	0.0	0.00659	0.0	0.0	0.0	0.0
3	1	0.00119	0.00011	1.00818	0.00007	0.00021	0.00004	0.00007
3	8	0.00084	0.00008	0.00014	0.00007	0.00051	0.00080	0.00005
3	15	0.00011	0.00001	0.00002	0.00011	0.00002	0.00005	0.00006
3	22	0.00007	0.00002	0.00003	0.00001	0.00019	0.00005	0.00006
3	29	0.00002	0.00001	0.00004	0.00003	0.00003	0.00004	0.00002
3	36	0.00003	0.00005	0.00001	0.00002	0.00004	0.00005	0.00002
3	43	0.00003	0.00002	0.00161	0.00173	0.00002	0.00872	0.13043
3	50	0.00024	0.00045	0.00091	0.00002	0.00002	0.00004	0.00002
3	57	0.00004	0.00092	0.00003	0.00210	0.00015	0.00002	0.00003
3	64	0.00003	0.00005	0.00261	0.00103	0.00437	0.00002	0.00288
3	71	0.00003	0.00171	0.00002	0.00003	0.00003	0.00063	0.0
3	78	0.00196	0.00004	0.00012	0.00002	0.0	0.0	0.00002
3	85	0.00559	0.00324	0.00320	0.01167	0.00003	0.00186	0.00002
3	94	0.00001	0.00016	0.00001	0.00015	0.00005	0.00002	0.0
3	101	0.00003	0.00002	0.00002	0.00001	0.00002	0.0	0.00012
3	109	0.00003	0.00003	0.00002	0.00003	0.00002	0.00003	0.00003
3	116	0.00002	0.00003	0.00002	0.00019	0.00009	0.00041	0.00004
3	123	0.00002	0.00003	0.00004	0.00004	0.00025	0.00033	0.00017
3	130	0.00165	0.02590	0.00013	0.00016	0.00061	0.00003	0.00004
3	137	0.00007	0.00004	0.00002	0.00023	0.00003	0.00042	0.00008
3	144	0.00004	0.00005	0.00004	0.00006	0.00061	0.00026	0.00086
3	151	0.00017	0.00061	0.00010	0.00038	0.00008	0.00008	0.00012
3	158	0.00023	0.0	0.00051	0.00007	0.00014	0.00007	0.0
3	166	0.00012	0.00094	0.00173	0.00066	0.00352	0.00006	0.00054
3	173	0.00004	0.0	0.0	0.00002	0.00008	0.00001	0.00003
3	180	0.00005	0.00005	0.0	0.00013	0.00002	0.00006	0.00002
3	187	0.00003	0.0	0.00005	0.0	0.0	0.0	0.0
4	1	0.00438	0.00226	0.00420	1.05225	0.10447	0.00583	0.00282
4	8	0.00569	0.00409	0.00420	0.00753	0.00341	0.00411	0.01118
4	15	0.01830	0.00261	0.00277	0.00466	0.00997	0.00279	0.00414

Data Set 12: The 190-Level Final Demand Matrix (1967)

The ten components of final demand, plus total final demand, for the 190-level information economy, are presented in this matrix. Table 18 lists the 190-level sectoring scheme. Sources and Methods, Number 77-12-3, of the Office of Telecommunications Special Report Series contains a further description of the matrix.

Data Format

The data set is composed of card image records. The first record in the data set is an identification record containing the matrix name and size. The format of the identification record, in FORTRAN notation, is:

	Identification Record			
Format	A4A	I4	I4	56X
Data Element	Matrix Name	# of Rows	# of Columns	Filler

The data records each contain a row subscript, a column subscript, and seven data elements. The format of a data record, in FORTRAN notation, is:

	Data Record		
Format	I4	I4	7F10.1
Data Element	Row	Column	Seven Data Elements

All data elements are in millions of dollars.

The ten components of final demand, plus total final demand, occupy two consecutive data records. A description of the layout of the records, and a list of the components of final demand, may be found in the discussion of Data Set 7, the 108-Level Final Demand Matrix.

The last record in the data set contains a "-1" in the row position. Table 12 contains the first several records of this data set.

In order to conserve space, the data set has been written with "0" data elements suppressed when possible. The user must have a clear understanding of the zero suppression algorithm to successfully read the data set. Please see the description of Data Set 2 for an explanation of that algorithm.

Physical Characteristics

The data set is written onto a 9-track, 1600 b.p.i., standard label tape. The data set name is "WGE1MUP.FDS190," the record length is 80 bytes and the block size is 3120 bytes. The matrix is the twelfth data set on the tape volume.

TABLE 12: SAMPLE DATA RECORDS FROM THE 190-LEVEL FINAL DEMAND MATRIX (1967)

FDS	190		190	11	1	1			
1	1	12181.0	0.0	5673.9	0.0	15.1	93.6	225.4
1	8	5430.0	0.0	266.0	477.0	0.0	0.0	0.0
2	1	1423.8	0.0	0.0	0.0	0.0	0.0	186.5
2	8	764.5	149.9	70.6	252.3	0.0	0.0	0.0
3	1	943.0	0.0	649.1	20.4	10.6	11.7	31.7
3	8	161.4	3.7	0.7	53.7	0.0	0.0	0.0
4	1	365.7	50.3	0.0	106.7	81.6	14.7	23.3
4	8	40.1	16.2	3.4	29.4	0.0	0.0	0.0
5	1	5599.0	4071.9	0.0	273.7	243.9	143.9	32.0
5	8	715.1	11.1	2.8	104.6	0.0	0.0	0.0
6	1	17.3	0.0	0.0	4.9	9.8	0.0	1.3
6	8	1.3	0.0	0.0	0.0	0.0	0.0	0.0
7	1	784.6	0.0	612.8	34.7	113.8	7.9	9.1
7	8	5.9	0.0	0.0	0.4	0.0	0.0	0.0
8	1	5022.6	112.1	3352.1	155.5	709.7	242.5	290.6
8	8	118.5	9.6	0.8	31.2	0.0	0.0	0.0
9	1	1086.0	0.0	629.0	19.8	166.2	207.9	50.1
9	8	2.5	0.5	0.6	9.4	0.0	0.0	0.0
10	1	13721.5	3645.9	2936.8	600.1	580.2	5179.2	657.3
10	8	93.3	3.3	14.0	11.4	0.0	0.0	0.0
11	1	1434.6	170.7	18.3	139.1	372.0	617.1	103.2
11	8	4.2	0.5	8.0	1.5	0.0	0.0	0.0
12	1	194.8	0.0	133.3	7.2	29.2	8.8	2.4
12	8	1.6	12.3	0.0	0.0	0.0	0.0	0.0
13	1	2200.6	415.4	614.6	77.7	460.9	478.8	82.6
13	8	17.4	34.5	3.9	14.8	0.0	0.0	0.0
14	1	2579.2	713.2	920.0	78.0	313.3	340.3	70.4
14	8	65.4	56.3	4.5	17.8	0.0	0.0	0.0
15	1	516.5	203.6	241.4	17.7	34.7	1.4	1.1
15	8	23.1	0.0	-7.6	1.1	0.0	0.0	0.0
16	1	10090.8	7836.8	1095.7	0.0	139.6	405.1	138.4
16	8	135.7	43.8	42.8	252.9	0.0	0.0	0.0
17	1	7.2	0.0	0.0	0.0	0.0	0.0	0.0
17	8	7.2	0.0	0.0	0.0	0.0	0.0	0.0
18	1	15552.8	13531.0	1014.0	101.3	516.3	230.3	50.4
18	8	25.4	41.5	11.7	30.9	0.0	0.0	0.0
19	1	25112.8	24595.7	4.0	-0.7	90.4	17.3	36.5
19	8	172.5	39.4	6.6	151.1	0.0	0.0	0.0
20	1	9170.4	7841.7	777.8	0.0	213.8	47.8	60.4
20	8	62.1	39.9	9.3	117.6	0.0	0.0	0.0
21	1	1112.3	1105.2	0.0	0.0	0.0	1.2	-0.5
21	8	1.9	2.6	0.7	1.2	0.0	0.0	0.0
22	1	7471.3	4142.0	0.0	0.0	408.4	1253.8	585.8
22	8	429.7	285.6	66.4	299.6	0.0	0.0	0.0
23	1	2153.6	1743.9	0.0	-56.8	322.1	108.7	5.5
23	8	24.1	0.3	2.1	3.7	0.0	0.0	0.0
24	1	23027.1	20629.4	0.0	0.0	0.0	901.0	1000.4
24	8	100.7	322.6	32.1	40.9	0.0	0.0	0.0
25	1	1498.8	1053.1	0.0	0.0	14.4	187.1	46.5
25	8	23.2	64.9	9.0	100.6	0.0	0.0	0.0
26	1	469.7	0.0	0.0	0.0	0.0	98.8	76.9
26	8	142.9	29.6	14.2	107.3	0.0	0.0	0.0
31	1	8.0	0.0	0.0	0.0	8.0	0.0	0.0
32	1	4.0	0.0	0.0	0.0	2.0	2.0	0.0
33	1	1.0	0.0	0.0	0.0	1.0	0.0	0.0
34	1	2.0	0.0	0.0	0.0	2.0	0.0	0.0
37	1	204.0	0.0	0.0	0.0	13.0	191.0	0.0
39	1	3329.0	0.0	0.0	0.0	0.0	3329.0	0.0

Data Set 13: The 190-Level Total Output Matrix (1967)

The output generated by final demand in the information economy is shown in Data Set 13. The matrix includes output generated by total final demand and by components of final demand. The industries of the 190-level matrix, which show detail of the primary and secondary information sectors, are listed in Table 18. A description of methodology is given in Sources and Methods, Number 77-12-3, of the Office of Telecommunications Special Report Series.

Data Format

The data set is composed of card image records. The first record in the data set is an identification record containing the matrix name and size. The format of the identification record, in FORTRAN notation, is:

Identification Record

Format	4A4	I4	I4	56X
Data Element	Matrix Name	# of Rows	# of Columns	Filler

The data records each contain a row subscript, a column subscript, and seven data elements. The format of a data record, in FORTRAN notation, is:

Data Record

Format	I4	I4	7F10.1
Data Element	Row	Column	Seven Data Elements

All data elements are shown in millions of dollars.

Total output, and the outputs generated by each of ten components of final demand, are shown for each industry. Two consecutive records are used to show the outputs for an industry. A listing of each component of output appears in the description of Data Set 8, along with further format information.

The last record in the data set contains a "-1" in the row position. Table 13 contains the first several records of this data set.

In order to conserve space, the data set has been written with "0" data elements suppressed when possible. The user must have a clear understanding of the zero suppression algorithm to successfully read the data set. Please see the description of Data Set 2 for an explanation of that algorithm.

Physical Characteristics

The data set is written onto a 9-track, 1600 b.p.i., standard label tape. The data set name is "WGE1MUP.TOUTS190," the record length is 80 bytes and the block size is 3120 bytes. The matrix is the thirteenth data set on the tape volume.

TABLE 13: SAMPLE DATA RECORDS FROM THE 190-LEVEL TOTAL OUTPUT MATRIX (1967)

TOUTS	190	190	11	1	1			
1	1	12181.0	0.0	5673.9	0.0	15.1	93.6	225.4
1	8	5430.0	0.0	266.0	477.0	0.0	0.0	0.0
2	1	7683.7	4193.1	834.8	103.7	354.5	364.6	298.0
2	8	852.2	214.9	80.4	387.6	0.0	0.0	0.0
3	1	1137.4	57.0	723.1	26.0	21.2	37.1	36.6
3	8	172.2	4.7	1.1	58.3	0.0	0.0	0.0
4	1	4535.4	2859.5	421.4	203.8	330.2	223.3	100.0
4	8	192.3	57.8	11.8	135.2	0.0	0.0	0.0
5	1	20549.5	13957.4	1733.5	480.9	910.5	1045.1	400.5
5	8	1191.7	209.8	43.6	576.5	0.0	0.0	0.0
6	1	383.2	247.1	35.1	14.3	30.1	18.5	8.2
6	8	15.5	3.6	0.7	10.0	0.0	0.0	0.0
7	1	986.3	73.2	701.8	40.1	135.3	12.8	11.3
7	8	8.6	0.7	0.1	2.4	0.0	0.0	0.0
8	1	6678.8	655.7	3994.1	197.2	866.6	387.5	356.4
8	8	150.1	16.8	2.3	52.2	0.0	0.0	0.0
9	1	1503.6	108.3	751.2	35.1	205.6	311.3	66.6
9	8	7.3	2.6	1.1	14.4	0.0	0.0	0.0
10	1	17307.8	4665.2	3714.4	745.2	836.3	6292.6	827.4
10	8	130.9	14.7	18.6	62.3	0.0	0.0	0.0
11	1	8128.4	2055.9	1673.5	393.0	853.3	2579.1	427.5
11	8	66.8	17.1	16.0	46.5	0.0	0.0	0.0
12	1	244.1	21.1	148.1	8.4	33.7	13.1	3.4
12	8	2.2	13.4	0.1	0.7	0.0	0.0	0.0
13	1	4419.2	1018.0	1299.9	148.8	641.6	906.7	160.0
13	8	86.2	53.4	8.5	96.0	0.0	0.0	0.0
14	1	4336.0	1775.7	1137.2	103.3	408.0	531.6	121.5
14	8	107.2	86.4	8.5	56.6	0.0	0.0	0.0
15	1	1680.3	888.8	423.9	33.4	87.3	77.9	34.5
15	8	71.0	16.3	-3.6	50.9	0.0	0.0	0.0
16	1	19327.2	13845.7	2422.3	139.1	587.0	1044.0	310.6
16	8	301.9	131.7	57.5	487.4	0.0	0.0	0.0
17	1	3183.3	2010.1	438.1	39.1	153.6	210.6	79.1
17	8	91.3	45.0	8.6	107.7	0.0	0.0	0.0
18	1	22703.2	17461.7	2597.3	231.1	914.9	644.1	171.7
18	8	191.5	110.6	24.5	356.0	0.0	0.0	0.0
19	1	46618.5	41167.1	2129.2	213.8	941.4	683.0	234.1
19	8	462.0	171.4	30.3	586.4	0.0	0.0	0.0
20	1	23540.3	18098.9	2397.7	246.2	986.2	718.8	228.8
20	8	261.8	166.7	29.2	406.2	0.0	0.0	0.0
21	1	1447.5	1351.4	32.5	4.2	12.6	21.2	4.7
21	8	5.4	6.9	1.2	7.3	0.0	0.0	0.0
22	1	47237.8	29770.0	6574.0	586.5	2298.3	3153.3	1177.4
22	8	1258.9	672.6	129.4	1617.5	0.0	0.0	0.0
23	1	4916.7	3763.0	198.0	-68.1	567.0	260.7	43.0
23	8	74.2	20.4	6.9	51.7	0.0	0.0	0.0
24	1	24559.9	21696.1	196.3	20.5	63.8	984.1	1023.9
24	8	126.2	336.5	34.2	78.5	0.0	0.0	0.0
25	1	4512.9	3233.0	321.0	36.9	133.2	339.9	97.0
25	8	78.0	96.5	13.8	163.6	0.0	0.0	0.0
26	1	2606.6	1553.7	234.4	25.4	86.0	207.8	109.6
26	8	174.9	47.9	17.1	149.9	0.0	0.0	0.0
27	1	896.0	811.5	12.8	18.2	32.9	6.6	3.1
27	8	2.2	4.6	0.9	3.2	0.0	0.0	0.0
28	1	2259.9	1808.1	45.9	115.5	328.6	19.0	-91.0
28	8	8.0	9.4	2.1	14.3	0.0	0.0	0.0
29	1	90.0	61.8	20.7	1.7	6.2	2.4	-10.7
29	8	1.6	0.9	0.1	5.2	0.0	0.0	0.0

Data Set 14: Excerpts from the Input-Output Work Tape (1967)

This data set contains excerpts from the Bureau of Economic Analysis' 1967 Input-Output Work Tape. The information industries at the 484-level of the BEA study have been abstracted from the larger data set. A further discussion of the methodology used to create this data set, and its use in the research, may be found in Sources and Methods for Measuring the Primary Information Sector: Detailed Industry Reports, Number 77-12-2, of the Office of Telecommunications Special Report Series.

Data Format

This data set has been written in a fully formatted printer output form. The data set contains tables with descriptive headers and stubs. However, although the data set is written in format suitable for printing, the data set contains no carriage controls. Table 14 is a listing of the first several records of the data set.

Physical Characteristics

The data set is written onto a 9-track, 1600 b.p.i., standard label tape. The data set name is "WGE1MUP.IOWORK," the record length is 132 bytes and the block size is 1320 bytes. This is the fourteenth and last data set on the tape volume.

TABLE 14: SAMPLE DATA RECORDS FROM THE INPUT-OUTPUT WORK TAPE

		0.000	.	0.0	.	.	.	.	.	.	0.0
110202 1512	NEW OFFICE BLDGS	0.473	3763.0	0.0	.	2805.9	.	15.1	199.0	743.0	3763.0
110202 1512	INDUSTRY UNALLOCATED	0.000	0.0	0.0	.	.	.	.	.	.	0.0
	TOTAL				0.0	2805.9	0.0	15.1	199.0	743.0	3763.0

IO-IND PRODUCT	NAME OF ITEM	%GNP	OUTPUT	INTERM	PCE	GCF	INV	EXP	FED	STATE	FIN DEM
110207 1517	NEW EDUCATION BLDGS	0.810	6439.0	0.0	.	987.0	.	.	22.0	5430.0	6439.0
110207 1517	INDUSTRY UNALLOCATED	0.000	0.0	0.0	.	.	.	.	.	.	0.0
	TOTAL				0.0	987.0	0.0	0.0	22.0	5430.0	6439.0

IO-IND PRODUCT	NAME OF ITEM	%GNP	OUTPUT	INTERM	PCE	GCF	INV	EXP	FED	STATE	FIN DEM
110301 1601	NEW TELEPHONE + TELEGRAPH	0.206	1638.0	0.0	.	1638.0	.	.	.	.	1638.0
110301 1601	INDUSTRY UNALLOCATED	0.000	0.0	0.0	.	.	.	.	.	.	0.0
	TOTAL				0.0	1638.0	0.0	0.0	0.0	0.0	1638.0

TABLE 15: INDUSTRY CLASSIFICATION FOR THE 503-LEVEL 1967 INPUT-OUTPUT TABLE*

INDUSTRY CODE	INDUSTRY NAME
010100	Dairy Farm Products
010200	Poultry and Eggs
010301	Meat Animals
010302	Misc Livestock
020100	Cotton
020201	Food Grains
020202	Feed Grains
020203	Grass Seed
020300	Tobacco
020401	Fruits
020402	Tree Nuts
020501	Vegetables
020502	Sugar Crops
020503	Misc Crops
020600	Oil Bearing Crops
020701	Forest Products
020702	Greenhouse & Nursery Products
030000	Forestry and Fishery Products
040000	Agricultural, Forestry & Fishery Services
050000	Iron and Ferroally Ores Mining
060100	Copper Ore Mining
060200	Nonferrous Metal Ores Mining, Except Copper
070000	Coal Mining
080000	Crude Petroleum and Natural Gas
090000	Stone and Clay Mining and Quarrying
100000	Chemical and Fertilizer Mineral Mining
110000	Construction, Total
110101	New Residential Single Family Housing, Nonfarm
110102	New Residential Two-Four Family Housing
110103	New Residential Garden Apartments
110104	New Residential High-Rise Apartments
110105	New Residential Alterations and Additions
110106	New Hotels and Motels
110107	New Dormitories
110201	New Industrial Buildings
110202	New Office Buildings
110203	New Warehouses
110204	New Garages and Service Stations
110205	New Stores and Restaurants
110206	New Religious Buildings
110207	New Educational Buildings
110208	New Hospital Buildings
110209	New Other Nonfarm Buildings
110301	New Telephone and Telegraph Facilities
110302	New Railroads
110303	New Electric Utility Facilities
110304	New Gas Utility Facilities
110305	New Petroleum Pipelines
110306	New Water Supply Facilities
110307	New Sewer Facilities
110308	New Local Transit Facilities
110400	New Highways
110501	New Farm Residential Buildings
110502	New Farm Service Facilities
110503	New Oil and Gas Wells
110504	New Oil and Gas Exploration
110505	New Military Facilities
110515	New Military Facilities, Net.
110506	New Conservation and Development Facilities
110507	Other New Nonbuilding Facilities
120100	Maintenance and Repair, Residential
120201	Maintenance and Repair of Other Nonfarm Buildings
120202	Maintenance and Repair of Farm Residential
120203	Maintenance and Repair of Farm Service Facilities
120204	Maintenance and Repair of Telephone & Telegraph Facilities

INDUSTRY CODE	INDUSTRY NAME
120205	Maintenance and Repair of Railroads
120206	Maintenance and Repair of Electric Utility Facilities
120207	Maintenance and Repair of Gas Utility Facilities
120208	Maintenance and Repair of Petroleum Pipelines
120209	Maintenance and Repair of Water Supply Facilities
120210	Maintenance and Repair of Sewer Facilities
120211	Maintenance and Repair of Local Transit Facilities
120212	Maintenance and Repair of Military Facilities
120213	Maintenance and Repair of Conservation & Development Fac.
120214	Maintenance and Repair of Highways
120215	Maintenance and Repair of Oil and Gas Wells
120216	Maintenance and Repair of Other Nonbuilding Facilities
130100	Complete Guided Missiles
130200	Ammunition, Exc. for Small Arms, Nec.
130300	Tanks and Tank Components
130400	Sighting and Fire Control Equipment
130500	Small Arms
130600	Small Arms Ammunition
130700	Ordnance and Accessories, Nec.
140101	Meat Packing Plants
140102	Sausages and Other Prepared Meats
140103	Poultry Dressing Plants
140200	Creamery Butter
140300	Cheese, Natural and Processed
140400	Condensed and Evaporated Milk
140500	Ice Cream and Frozen Desserts
140600	Fluid Milk
140700	Canned and Cured Sea Foods
140800	Canned Specialties
140900	Canned Fruits and Vegetables
141000	Dehydrated Food Products
141100	Pickles, Sauces, and Salad Dressings
141200	Fresh or Frozen Packaged Fish
141300	Frozen Fruits and Vegetables
141401	Flour and Other Grain Mill Products
141402	Cereal Preparations
141403	Blended and Prepared Flour
141500	Prepared Feeds for Animals and Fowls
141600	Rice Milling
141700	Wet Corn Milling
141801	Bread, Cake, and Related Products
141802	Cookies and Crackers
141900	Sugar
142001	Confectionery Products
142002	Chocolate and Cocoa Products
142003	Chewing Gum
142101	Malt Liquors
142102	Malt
142103	Wines, Brandy, and Brandy Spirits
142104	Distilled Liquor, Except Brandy
142200	Bottled and Canned Soft Drinks
142300	Flavoring Extracts and Sirups, Nec.
142400	Cottonseed Oil Mills
142500	Soybean Oil Mills
142600	Vegetable Oil Mills, Nec.
142700	Animal and Marine Fats and Oils
142800	Roasted Coffee
142900	Shortening and Cooking Oils
143000	Manufactured Ice
143100	Macaroni and Spaghetti
143200	Food Preparations, Nec.
150101	Cigarettes
150102	Cigars
150103	Chewing and Smoking Tobacco
150200	Tobacco Stemming and Redrying

INDUSTRY CODE	INDUSTRY NAME
160100	Broadwoven Fabric Mills and Fabric Finishing Plants
160200	Narrow Fabric Mills
160300	Yarn Mills and Finishing of Textiles, Nec.
160400	Thread Mills
170100	Floor Coverings
170200	Felt Goods, Nec.
170300	Lace Goods
170400	Paddings and Upholstery Filling
170500	Processed Textile Waste
170600	Coated Fabrics, Not Rubberized
170700	Tire Cord and Fabric
170800	Scouring and Combing Plants
170900	Cordage and Twine
171000	Textile Goods, Nec.
180101	Women's Hosiery, Except Socks
180102	Hosiery, Nec.
180201	Knit Outerwear Mills
180202	Knit Underwear Mills
180203	Knitting Mills, Nec.
180300	Knit Fabric Mills
180400	Apparel Made From Purchased Materials
190100	Curtains and Draperies
190200	Housefurnishings, Nec.
190301	Textile Bags
190302	Canvas Products
190303	Pleating and Stitching
190304	Automotive and Apparel Trimmings
190305	Schiffli Machine Embroideries
190306	Fabricated Textile Products, Nec.
200100	Logging Camps, & Logging Contractors
200200	Sawmills and Planning Mills, General
200300	Hardwood Dimension and Flooring
200400	Special Product Sawmills, Nec.
200500	Millwork
200600	Veneer and Plywood
200700	Prefabricated Wood Structures
200800	Wood Preserving
200900	Wood Products, Nec.
210000	Wooden Containers
220101	Wood Household Furniture
220102	Household Furniture, Nec.
220200	Upholstered Household Furniture
220300	Metal Household Furniture
220400	Matresses and Bedsprings
230100	Wood Office Furniture
230200	Metal Office Furniture
230301	Public Building Furniture
230302	Public Building Furniture, Net.
230400	Wood Partitions and Fixtures
230500	Metal Partitions and Fixtures
230600	Venetian Blinds and Shades
230700	Furniture and Fixtures, Nec.
240100	Pulp Mills
240201	Paper Mills, Except Building Paper
240202	Paper Mills, Net.
240300	Paperboard Mills
240400	Envelopes
240500	Sanitary Paper Products
240601	Wallpaper
240602	Building Paper and Board Mills
240711	Paper Coating and Glazing
240712	Paper Coating and Glazing, Net.
240702	Bags, Except Textile Bags
240703	Die Cut Paper and Board
240704	Pressed and Molded Pulp Goods

INDUSTRY CODE	INDUSTRY NAME
240705	Converted Paper Products, Nec.
250000	Paperboard Containers and Boxes
260100	Newspapers
260200	Periodicals
260301	Book Publishing
260302	Book Printing
260401	Miscellaneous Publishing
260402	Miscellaneous Publishing, Net.
260501	Commercial Printing
260502	Commercial Printing, Net.
260601	Manifold Business Forms
260602	Blankbooks and Looseleaf Binders
260700	Greeting Card Publishing
260801	Engraving and Plate Printing
260802	Bookbinding and Related Work
260803	Typesetting
260804	Photoengraving
260805	Electrotyping and Stereotyping
270100	Industrial Inorganic and Organic Chemicals
270201	Fertilizers
270202	Fertilizer, Mixing Only
270300	Agricultural Chemicals, Nec.
270401	Gum and Wood Chemicals
270402	Adhesives and Gelatin
270403	Explosives
270404	Printing Ink
270405	Carbon Black
270406	Chemical Preparations, Nec.
280100	Plastics Materials and Resins
280200	Synthetic Rubber
280300	Cellulosic Man-Made Fibers
280400	Organic Fibers, Noncellulosic
290100	Drugs
290201	Soap and Other Detergents
290202	Polishes and Sanitation Goods
290203	Surface Active Agents
290300	Toilet Preparations
300000	Paints and Allied Products
310100	Petroleum Refining and Related Products
310200	Paving Mixtures and Blocks
310300	Asphalt Felts and Coatings
320100	Tires and Inner Tubes
320200	Rubber Footwear
320301	Reclaimed Rubber
320302	Fabricated Rubber Products, Nec.
320400	Miscellaneous Plastics Products
330001	Leather Tanning and Finishing
330002	Industrial Leather Belting
340100	Footwear Cut Stock
340201	Shoes, Except Rubber
340202	House Slippers
340301	Leather Gloves and Mittens
340302	Luggage
340303	Women's Handbags and Purses
340304	Personal Leather Goods
340305	Leather Goods, Nec.
350100	Glass and Glass Products Exc Containers
350200	Glass Containers
360100	Cement, Hydraulic
360200	Brick and Structural Clay Tile
360300	Ceramic Wall and Floor Tile
360400	Clay Refractories
360500	Structural Clay Products, Nec.
360600	Vitreous Plumbing Fixtures
360701	Vitreous China Food Utensils
360702	Fine Earthenware Food Utensils

INDUSTRY CODE	INDUSTRY NAME
360800	Porcelain Electrical Supplies
360900	Pottery Products, Nec.
361000	Concrete Block and Brick
361100	Concrete Products, Nec.
361200	Ready-Mixed Concrete
361300	Lime
361400	Gypsum Products
361500	Cut Stone and Stone Products
361600	Abrasive Products
361700	Asbestos Products
361800	Gaskets and Insulations
361900	Minerals, Ground or Treated
362000	Mineral Wool
362100	Nonclay Refractories
362200	Nonmetallic Mineral Products, Nec.
370101	Blast Furnaces and Steel Mills
370102	Electrometallurgical Products
370103	Steel Wire and Related Products
370104	Cold Finishing of Steel Shapes
370105	Steel Pipe and Tubes
370200	Iron and Steel Foundaries
370300	Iron and Steel Forgings
370400	Primary Metals, Nec.
380100	Primary Copper
380200	Primary Lead
380300	Primary Zinc
380400	Primary Aluminum
380500	Primary Nonferrous Metals, Nec.
380600	Secondary Nonferrous Metals
380700	Copper Rolling and Drawing
380800	Aluminum Rolling and Drawing
380900	Nonferrous Rolling and Drawing, Nec.
381000	Nonferrous Wire Drawing and Insulating
381100	Aluminum Castings
381200	Brass, Bronze, and Copper Castings
381300	Nonferrous Castings, Nec.
381400	Nonferrous Forgings
390100	Metal Cans
390200	Metal Barrels, Drums, and Pails
400100	Metal Sanitary Ware
400200	Plumbing Fittings and Brass Goods
400300	Heating Equipment, Except Electric
400400	Fabricated Structural Steel
400500	Metal Doors, Sash, and Trim
400600	Fabricated Plate Work & Boiler Shops
400700	Sheet Metal Work
400800	Architectural Metal Work
400900	Miscellaneous Metal Work
410100	Screw Machine Products & Bolts, Nuts, Rivets, & Washers
410200	Metal Stampings
420100	Cutlery
420201	Hand and Edge Tools, Nec.
420202	Hand Saws and Saw Blades
420300	Hardware, Nec.
420401	Plating and Polishing
420402	Metal Coating and Allied Services
420500	Miscellaneous Fabricated Wire Products
420600	Safes and Vaults
420700	Steel Springs
420800	Pipe, Valves, and Pipe Fittings
420900	Collapsible Tubes
421000	Metal Foil and Leaf
421100	Fabricated Metal Products, Nec.
430100	Steam Engines and Turbines
430200	Internal Combustion Engines, Nec.
440000	Farm Machinery

INDUSTRY CODE	INDUSTRY NAME
450100	Construction Machinery
450200	Mining Machinery
450300	Oil Field Machinery
460100	Elevators and Moving Stairways
460200	Conveyors and Conveying Equipment
460300	Hoists, Cranes, and Monorails
460400	Industrial Trucks and Tractors
470100	Machine Tools, Metal Cutting Types
470200	Machine Tools, Metal Forming Types
470300	Special Dies and Tools, & Machine Tool Accessories
470400	Metalworking Machinery, Nec.
480100	Food Products Machinery
480200	Textile Machinery
480300	Woodworking Machinery
480401	Paper Industries Machinery
480402	Paper Industries Machinery, Net.
480500	Printing Trades Machinery
480600	Special Industry Machine, Nec.
490100	Pumps and Compressors
490200	Ball and Roller Bearings
490300	Blowers and Fans
490400	Industrial Patterns
490500	Power Transmission Equipment
490600	Industrial Furnaces and Ovens
490700	General Industrial Machinery, Nec.
500000	Misc. Machinery, Except Electrical
510101	Electronic Computing Equipment
510102	Calculating and Accounting Machines
510200	Typewriters
510300	Scales and Balances
510400	Office Machines, Nec.
520100	Automatic Merchandising Machines
520200	Commercial Laundry Equipment
520300	Refrigeration Machinery
520400	Measuring and Dispensing Pumps
520500	Service Industry Machines, Nec.
530100	Electric Measuring Instruments
530200	Transformers
530300	Switchgear and Switchboard Apparatus
530400	Motors and Generators
530500	Industrial Controls
530600	Welding Apparatus
530700	Carbon and Graphite Products
530800	Electrical Industrial Apparatus, Nec.
540100	Household Cooking Equipment
540200	Household Refrigerators and Freezers
540300	Household Laundry Equipment
540400	Electric Housewares and Fans
540500	Household Vacuum Cleaners
540600	Sewing Machines
540700	Household Appliances, Nec.
550100	Electric Lamps
550200	Lighting Fixtures
550300	Wiring Devices
560100	Radio and TV Receiving Sets
560200	Phonograph Records
560300	Telephone & Telegraph Apparatus
560400	Radio & TV Communications Equipment
570100	Electron Tubes
570200	Semiconductors
570300	Electronic Components, Nec.
580100	Storage Batteries
580200	Primary Batteries, Dry and Wet
580300	X-Ray Apparatus and Tubes
580400	Engine Electrical Equipment
580500	Electrical Equipment, Nec.

INDUSTRY CODE	INDUSTRY NAME
590100	Truck and Bus Bodies
590200	Truck Trailers
590301	Motor Vehicles
590302	Motor Vehicle Parts and Accessories
600100	Aircraft
600200	Aircraft Engines and Engine Parts
600300	Aircraft Propellers and Parts
600400	Aircraft Equipment, Nec.
610100	Ship Building and Repairing
610200	Boat Building and Repairing
610300	Locomotives and Parts
610400	Railroad and Street Cars
610500	Motorcycles, Bicycles, and Parts
610600	Trailer Coaches
610700	Transportation Equipment, Nec.
620100	Engineering and Scientific Instruments
620200	Mechanical Measuring Devices
620300	Automatic Temperature Controls
620400	Surgical and Medical Instruments
620500	Surgical Appliances and Supplies
620600	Dental Equipment and Supplies
620701	Watches and Clocks
620702	Watchcases
630100	Optical Instruments and Lenses
630200	Ophthalmic Goods
630300	Photographic Equipment and Supplies
640101	Jewelry, Precious Metal
640102	Jewelers' Findings and Materials
640103	Lapidary Work
640104	Silverware and Plated Ware
640105	Costume Jewelry
640200	Musical Instruments and Parts
640301	Games and Toys
640302	Dolls
640303	Children's Vehicles, Except Bicycles
640400	Sporting and Athletic Goods, Nec.
640501	Pens and Mechanical Pencils
640502	Lead Pencils and Art Goods
640503	Marking Devices
640504	Carbon Paper and Inked Ribbons
640600	Artificial Flowers
640701	Buttons
640702	Needles, Pins, and Fasteners
640800	Brooms and Brushes
640900	Hard Surface Floor Coverings
641000	Morticians' Goods
641100	Signs and Advertising Displays
641200	Miscellaneous Products, Nec.
650100	Railroads and Related Services
650200	Local, Suburban & Interurban Hwy. Passenger Transportation
650300	Motor Freight Transportation and Warehousing
650400	Water Transportation
650500	Air Transportation
650600	Pipe Line Transportation
650700	Transportation Services
660000	Communications, Except Radio and Television
670000	Radio and Television Broadcasting
680100	Electric Utilities
680200	Gas Utilities
680300	Water and Sanitary Services
690101	Wholesale Trade
690102	Wholesale Trade, Net.
690201	Retail Trade
690202	Retail Trade, Net.
700100	Banking
700200	Credit Agencies

INDUSTRY CODE	INDUSTRY NAME
700301	Security and Commodity Brokers
700302	Security and Commodity Brokers, Net.
700400	Insurance Carriers
700500	Insurance Agents and Brokers
710100	Owner-Occupied Dwellings
710201	Real Estate
710202	Real Estate, Net.
720100	Hotels and Lodging Places
720201	Personal and Repair Services Exc Auto
720202	Personal and Repair Services, Net.
720300	Barber and Beauty Shops
730101	Miscellaneous Business Services
730102	Miscellaneous Business Services, Net.
730200	Advertising
730300	Miscellaneous Professional Services
750000	Automobile Repair and Services
760100	Motion Pictures
760201	Amusement and Recreation Services
760202	Amusement and Recreation Services, Net.
770101	Doctors
770102	Doctors and Dentists, Net.
770200	Hospitals
770301	Other Medical and Health Services
770302	Other Medical and Health Services, Net.
770400	Educational Services
770501	Nonprofit Organizations
770502	Nonprofit Organizations, Net
780101	Post Office
780102	Post Office, Net
780200	Federal Electric Utilities
780300	Commodity Credit Corporation
780400	Other Federal Government Enterprises
790100	Local Government Passenger Transit
790200	State and Local Electric Utilities
790300	Other State and Local Government Enterprises
800100	Directly Allocated Imports, Net.
800200	Transferred Imports, Net.
810000	Business Travel, Entertainment and Gifts
820000	Office Supplies
830000	Scrap, Used and Secondhand Goods
840001	Government Industry
840002	Government Industry, Net.
850000	Rest of the World Industry
860000	Household Industry
870000	Investory Valuation Adjustment
890000	Value Added
910000	Personal Consumption Expenditures
920000	Gross Private Fixed Capital Formation
930000	Net Inventory Change
940000	Net Exports
971000	Federal Government Purchases, Defense
972000	Federal Government Purchases, Other
986000	State and Local Government Purchases, Education
987000	State and Local Government Purchases, Health,Welfare,&S
988000	State and Local Government Purchases, Safety
989000	State and Local Government Purchases, Other

*As adapted from the Bureau of Economic Analysis 484-Level 1967 Input-Output Table.

TABLE 16 : INDUSTRY CLASSIFICATION FOR THE 108 LEVEL 1967 INPUT-OUTPUT TABLE

INDUSTRY CODE	INDUSTRY NAME
	INFORMATION
1.	Info Buildings: Office, Education, Communication
2.	Maintenance & Repair on Information Buildings
3.	Office Furniture & Equipment
4.	Paper: Printing
5.	Printing & Publishing
6.	Ink
7.	Printing & Paper Machinery
8.	Computer, Calculators, Office Equipment
9.	Electronic Measuring Instruments
10.	Radio, TV, Communications Equipment
11.	Electronic Components
12.	Misc. Electronic Instruments
13.	Mech. Measuring & Control Instruments
14.	Photographic & Related Equipment
15.	Advertising Signs & Displays
16.	Telecommunications, Exc. Radio & TV
17.	Radio & TV Broadcast & CATV
18.	Trade Margin on Information Goods
19.	Finance & Insurance: Information Transmission
20.	Real Estate: Fees, Royalty
21.	Repair: Radio & TV Equipment
22.	Misc. Business Information Services
23.	Motion Pictures, Theater
24.	Medical, Education, Nonprofit Services
25.	Postal Service
26.	Office Supplies
	NONINFORMATION
27.	Livestock & Products
28.	Other Agricultural Products
29.	Forestry & Fishery Products
30.	Agriculture, Forest, Fish Services
31.	Iron, Ores, Mining
32.	Nonferrous Ores Mining
33.	Coal Mining
34.	Crude Petroleum, Natural Gas
35.	Stone, Clay Mining
36.	Chemicals Mining
37.	New Construction, Net
38.	Maintenance & Repair Construction, Net
39.	Ordnance & Accessories
40.	Food & Kindred Products
41.	Tobacco Manufacturers
42.	Fabrics, Yarn & Thread
43.	Misc. Textile Goods
44.	Apparel
45.	Misc Fabricated Textiles
46.	Lumber & Wood Products
47.	Wooden Containers
48.	Household Furniture
49.	Furniture & Fixtures, Net
50.	Paper Products, Exc Boxes, Net
51.	Paper Containers & Boxes

INDUSTRY CODE	INDUSTRY NAME
52.	Printing & Publishing, Net
53.	Chemicals, Net
54.	Plastic & Synthetics
55.	Drugs, Cleaning & Toilet Preparations
56.	Paints
57.	Petroleum Refining
58.	Rubber & Plastics
59.	Leather Products
60.	Leather, Industrial
61.	Glass Products
62.	Stone & Clay Products
63.	Primary Iron & Steel Manufacturing
64.	Primary Nonferrous Metal Manufacturing
65.	Metal Containers
66.	Heating & Plumbing Products
67.	Screw Machine Products
68.	Other Fabricated Metal Products
69.	Engines & Turbines
70.	Farm Machinery
71.	Construction Machinery
72.	Material Hauling Machinery
73.	Metalworking Machinery
74.	Special Industries Machinery, Net
75.	General Industrial Machinery
76.	Machine Shop Products
77.	Office Machines, Net
78.	Service Industry Machines
79.	Electric Industry Apparatus, Net
80.	Household Appliances
81.	Electric Light & Wire
82.	Radio & TV, Net
83.	Electronic Components, Net
84.	Misc. Electronic Products, Net
85.	Motor Vehicles & Equipment
86.	Aircraft & Parts
87.	Other Transportation Equipment
88.	Professional & Scientific Equipment, Net
89.	Optical & Photographic Equipment, Net
90.	Misc. Manufacturing, Net
91.	Transportation & Warehousing
92.	Communications, Net
93.	Broadcasting, Net
94.	Utilities
95.	Wholesale & Retail Trade, Net
96.	Finance & Insurance, Net
97.	Real Estate & Rental, Net
98.	Hotels, Personal, Repair Services, Net
99.	Misc. Business Services, Net
100.	Research & Development
101.	Auto Repair & Service
102.	Amusements, Net
103.	Medical & Nonprofit Services, Net
104.	Federal Government Enterprises, Net
105.	State & Local Government
106.	Imports, Net
107.	Business Travel, Etc
108.	Office Supplies, Net

TABLE 17: ABBREVIATED OCCUPATIONAL TITLES: 1967 AND 1970 WAGE MATRICES*

INDUSTRY CODE	INDUSTRY NAME
1.	Engineers, Aero-Astronautic
2.	Engineers, Chemical
3.	Engineers, Civil
4.	Engineers, Electrical
5.	Engineers, Industrial
6.	Engineers, Mechanical
7.	Engineers, Metallurgical
8.	Engineers, Mining
9.	Engineers, Petroleum
10.	Engineers, Sales
11.	Engineers, Other
12.	Agricultural Scientists
13.	Atmospheric, Space Scientists
14.	Biological Scientists
15.	Chemists
16.	Geologists
17.	Marine Scientists
18.	Physicists and Astronomers
19.	Life, Physical Scientists Nec
20.	Actuaries
21.	Mathematicians
22.	Statisticians
23.	Agri, Biolog Tech Exc Health
24.	Chemical Technicians
25.	Draftsmen
26.	Electrical, Electronic Tech
27.	Industrial Engineering Tech
28.	Mathematical Techn
29.	Mechanical Engineering Tech
30.	Surveyors
31.	Engineering, Science Tech Nec
32.	Chiropractors
33.	Dentists
34.	Dietitians
35.	Optometrists
36.	Pharmacists
37.	Physicians and Osteopaths
38.	Podiatrists
39.	Registered Nurses
40.	Therapists
41.	Veterinarians
42.	Other Medical and Health
43.	Clinical Lab Technol, Tech
44.	Dental Hygienists
45.	Health Record Technol, Tech
46.	Radiologic Technol, Tech
47.	Therapy Assistants
48.	Other Health Technol, Tech
49.	Airplane Pilots
50.	Air Traffic Controllers
51.	Embalmers
52.	Flight Engineers
53.	Radio Operators
54.	Tool Programmers, Numerical
55.	Other Technicians Exc Health

INDUSTRY CODE	INDUSTRY NAME
56.	Computer Programmers
57	Computer Systems Analysts
58.	Other Computer Specialists
59.	Economists
60.	Political Scientists
61.	Psychologists
62.	Sociologists
63.	Urban and Regional Planners
64.	Other Social Scientists
65.	Adult Education Teachers
66.	Agriculture Teachers
67.	Art, Drama, Music Teachers
68.	Atmospheric, Earth, Marine Teachers
69.	Biology Teachers
70.	Business, Commerce Teachers
71.	Chemistry Teachers
72.	Coaches, Phys Ed Teachers
73.	Economic Teachers
74.	Education Teachers
75.	Elementary School Teachers
76.	Engineering Teachers
77.	English Teachers
78.	Foreign Language Teachers
79.	Health Specialities Teachers
80.	History Teachers
81.	History Teachers
82.	Law Teachers
83.	Mathematics Teachers
84.	Physics Teachers
85.	Preschool, Kindergarten Teachers
86.	Psychology Teachers
87.	Secondary School Teachers
88.	Sociology Teachers
89.	Social Science Teachers Nec
90.	Misc College and University Teachers
91.	College, University Teachers, Nec
92.	Theology Teachers
93.	Trade, Industial Teachers
94.	Teachers Nec, Exc Coll, Univer
95.	Actors
96.	Athletes and Kindred Workers
97.	Authors
98.	Dancers
99.	Designers
100.	Editors and Reporters
101.	Musicians and Composers
102.	Painters and Sculptors
103.	Photographers
104.	Public Relations Men, Writers
105.	Radio, TV Announcers
106.	Writers, Artists, Entertain Nec
107.	Accountants
108.	Architects
109.	Archivists and Curators
110.	Clergymen

INDUSTRY CODE	INDUSTRY NAME
111.	Religious, Exc Clergymen
112.	Farm Management Advisors
113.	Foresters, Conservationists
114.	Home Management Advisors
115.	Judges
116.	Lawyers
117.	Librarians
118.	Operations, Systems Research
119.	Personnel Labor Relations
120.	Research Workers, Nec
121.	Recreation Workers
122.	Social Workers
123.	Vocational, Ed Counselors
124.	Bank, Financial Managers
125.	Creditmen
126.	Buyers, Shippers, Farm Prod
127.	Buyers, Wholesale, Retail
128.	Purchasing Agents, Buyers, Nec
129.	Sales Manager, Retail Trade
130.	Sales Manager, Exc Ret Trade
131.	Assesors, Control, Loc Pub Admin
132.	Construction Inspector, Pub
133.	Health Administrators
134.	Inspectors, Exc Construct Pub
135.	Officials, Admins, Pub
136.	Postmasters and Mail Super
137.	School Admin, College
138.	School Admin, Elem, Secondary
139.	Funeral Directors
140.	Mgrs, Superintendants, Bldg
141.	Office Managers, Nec.
142.	Officers, Pilots, Pursers, Ship
143.	Officials of Lodges, Unions
144.	Railroad Conductors
145.	Restaurant, Cafe, Bar Mgrs
146.	Other Mgrs, Administrators
147.	Advertising Agents, Salesmen
148.	Auctioneers
149.	Demonstrators
150.	Hucksters and Peddlers
151.	Insurance Agents, Brokers, Etc
152.	Newsboys
153.	Real Estate Agents, Brokers
154.	Stock and Bond Salesmen
155.	Sales Repres, Mfg.
156.	Sales Repres, Wholesale Trade
157.	Sales Clerks, Retail Trade
158.	Salesmen, Retail Trade
159.	Salesmen, Serv and Constr
160.	Secretaries, Legal
161.	Secretaries, Medical
162.	Secretaries, Other
163.	Stenographers
164.	Typists

INDUSTRY CODE	INDUSTRY NAME
165.	Bookkeeping, Billing Operators
166.	Calculating Machine Operators
167.	Computer, Peripheral Equip
168.	Duplicating Machine Operators
169.	Keypunch Operators,
170.	Tabulating Machine Operators
171.	Other Office Machine Operators
172.	Bank Tellers
173.	Billing Clerks
174.	Bookkeepers
175.	Cashiers
176.	Clerical Assist, Soc Welfare
177.	Clerical Supervisors, Nec
178.	Collectors, Bill and Account
179.	Counter Clerks, Exc Food
180.	Dispatcher, Starter, Vehicle
181.	Enumerators and Interviewers
182.	Estimators, Investigators, Nec
183.	Expeditors, Prod Controllers
184.	File Clerks
185.	Insurance Adjust, Examiners
186.	Library Attendants, Assistant
187.	Mail Carriers, Post Office
188.	Mail Handler, Exc Post Office
189.	Messengers and Office Boys
190.	Meter Readers, Utilities
191.	Payroll, Time Keeping Clerks
192.	Postal Clerks
193.	Proofreaders
194.	Real Estate Appraisers
195.	Receptionists
196.	Shipping, Receiving Clerks
197.	Statistical Clerks
198.	Stock Clerks, Store Keepers
199.	Teachers Aides, Exc Monitors
200.	Telegraph Messengers
201.	Telegraph Operators
202.	Telephone Operators
203.	Ticket Station, Express Agents
204.	Weighers
205.	Misc Clerical Workers, Nec
206.	Carpenters
207.	Carpenters Apprentices
208.	Brickmasons and Stonemasons
209.	Brick, Stonemason Appren
210.	Bulldozer Operators
211.	Cement and Concrete Finishers
212.	Electricians
213.	Electricians Appren
214.	Excavating, Grading, Mach Op
215.	Floor Layers, Exc Tile Setters
216.	Painters, Construction, Maint
217.	Painter Apprentices
218.	Paperhangers
219.	Plasterers
220.	Plastered Apprentices

INDUSTRY CODE	INDUSTRY NAME
221.	Plumbers and Pipefitters
222.	Plumbers, Pipefitters Apprentices
223.	Roofer and Slaters
224.	Structural Metal Craft
225.	Tilesetters
226.	Foremen, Nec
227.	Blacksmiths
228.	Boilermakers
229.	Heat Treaters, Annealers, Etc
230.	Forgemen and Hammermen
231.	Job and Die Setters, Metal
232.	Machinists
233.	Machinist Appren
234.	Millwrights
235.	Molders, Metal
236.	Molders Appren
237.	Pattern and Model Makers
238.	Rollers and Finishers, Metal
239.	Sheet Metal Workers, Tinsmiths
240.	Sheet Metal Apprentices
241.	Tool, Diemakers
242.	Tool, Diemaker Apprentices
243.	Air Cond, Heating, Refrig
244.	Aircrafts
245.	Auto Accessories Instalr
246.	Auto Body Repairmen
247.	Auto Mechanics
248.	Auto Mechanics Appren
249.	Data Processing Mach Repairmen
250.	Farm Implement
251.	Heavy Equip Mech, Incl. Diesel
252.	Household Appliance Mechanics
253.	Loom Fixers
254.	Office Machine Repairmen
255.	Radio, Television Repairmen
256.	Railroad, Car Shop Repairmen
257.	Mechanics Exc. Auto Appren
258.	Other Mechanics and Repairmen
259.	Bookbinders
260.	Compositors and Typesetters
261.	Electrotypers, Stereotypers
262.	Engravers Exc Photoengravers
263.	Photoengravers, Lithographers
264.	Pressmen and Plate Printers
265.	Pressmen Appren
266.	Printing Appren, Exc Press
267.	Electrical Power Linemen, Cablemen
268.	Locomotive Engineers
269.	Locomotive Firemen
270.	Power Station Operators
271.	Telephone Installrs, Repairmen
272.	Telephone Linemen, Splicers
273.	Bakers
274.	Cabinetmakers
275.	Carpet Installers

INDUSTRY CODE	INDUSTRY NAME
276.	Cranemen, Derrickmen, Hoistmen
277.	Decorators, Window Dressers
278.	Dental Laboratory Tech
279.	Furniture and Wood Finish
280.	Furriers
281.	Glaziers
282.	Inspectors, Log and Lumber
283.	Inspectors, Other
284.	Jewelers and Watchmakers
285.	Millers, Crain, Flour, Feed
286.	Motion Picture Projectionists
287.	Opticians, Lens Grinder, Polisher
288.	Piano, Organ Tuners, Repairmen
289.	Shipfitters
290.	Shoe Repairmen
291.	Sign Painters and Letters
292.	Stationary Engineers
293.	Stone Cutters, Stone Carvers
294.	Tailors
295.	Upholsterers
296.	Craftsmen, Kindred Workers, Nec.
297.	Former Armed Forces Members
298.	Craft Appren, Nec
299.	Drill Press Operatives
300.	Furnacemen, Smeltermen, Pourers
301.	Grinding Machine Operatives
302.	Heaters, Metal
303.	Lathe, Milling Mach Operatives
304.	Metal Platers
305.	Other Precision Mach Opr
306.	Punch Stamping Press Opr
307.	Solderers
308.	Welders and Flame Cutters
309.	Carding, Lapping, Combing
310.	Knitters, Loopers, and Toppers
311.	Spinners, Twisters, Winders
312.	Weavers
313.	Other Textile Operatives
314.	Checkers, Examiners, Etc, Mfg.
315.	Graders and Sorters, Mfg.
316.	Meat Wrappers, Retail Trade
317.	Packer, Wrapper, Exc Meat, Product
318.	Prod Grdr, Packer, Exc Fact, Farm
319.	Asbestos, Insulation Workers
320.	Assemblers
321.	Blasters and Powdermen
322.	Bottling, Canning Operatives
323.	Chainmen, Rodmen, Axmen Surveying
324.	Clothing Ironers and Pressers
325.	Cutting Operatives, Nec.
326.	Dressmaker, Seamstress, Exc Fact
327.	Drillers, Earth
328.	Dry Wall Installers, Lathers
329.	Dyers
330.	Filer, Polisher, Sander, Buffer

INDUSTRY CODE	INDUSTRY NAME
331.	Garage Workers, Gas Stat Atten
332.	Laundry, Dry Clean Op, Nec.
333.	Meat Cutters, Butchers, Exc Mfg
334.	Meat Cutters, Butchers
335.	Milleners
336.	Mine Operatives, Nec
337.	Mixing Operatives
338.	Oilers, Greasers, Exc Auto
339.	Painters, Mfg Articles
340.	Photographic Process Workers
341.	Riveters and Fasteners
342.	Sailors and Deckhands
343.	Sawyers
344.	Sewers and Stitchers
345.	Shoemaking Machine Opr
346.	Stationary Firemen
347.	Winding Operatives, Nec
348.	Misc Mach Operatives
349.	Operatives, Nec
350.	Boatmen and Canalmen
351.	Bus Drivers
352.	Conductors, Motormen, Urban Rail
353.	Delivery and Routemen
354.	Fork Life, Tow Motor Opr
355.	Motormen, Mine, Fact, Logging
356.	Parking Attendants
357.	Railroad Brakemen
358.	Railroad Switchmen
359.	Taxicab Drivers, Chauffers
360.	Truck Drivers
361.	Chambermaid, Maid, Exc Priv
362.	Cleaners and Charwomen
363.	Janitors and Sextons
364.	Bartenders
365.	Busboys
366.	Cooks, Exc Private
367.	Dishwashers
368.	Waiters
370.	Food Workers, Nec, Exc Private
371.	Dental Assistants
372.	Health Aides, Exc Nursing
373.	Health Trainees
374.	Lay Midwives
375.	Nurses Aides, Orderlies
376.	Practical Nurses
377.	Airline Stewardesses
378.	Atten, Recreation, Amusement
379.	Atten, Personal Service, Nec
380.	Baggage Porters and Bellhops
381.	Barbers
382.	Boarding, Lodging Housekeepers
383.	Bootblacks
384.	Child Care Workers, Exc Private
385.	Elevator Operators

INDUSTRY CODE	INDUSTRY NAME
386.	Hairdressers, Cosmetologists
387.	Housekeepers, Exc Private
388.	Personal Service Appren
389.	School Monitors
390.	Ushers, Recreation, Amusement
391.	Welfare Service Aides
392.	Crossing Guard, Bridgetenders
393.	Firemen, Fire Protection
394.	Guards and Watchmen
395.	Marshals and Constables
396.	Policemen and Detectives
397.	Sheriffs and Bailiffs
398.	Child Care Workers
399.	Cooks, Private
400.	Housekeepers, Private
401.	Laundresses, Private
402.	Maids, Servants, Private
403.	Animal Caretakers, Exc Farm
404.	Carpenters, Helpers
405.	Constr Labr, Exc Carpenter Help
406.	Fishermen and Oystermen
407.	Freight, Material Handlers
408.	Garbage Collectors
409.	Gardners, Groundkeeper, Exc Farm
410.	Longshoremen and Stevedores
411.	Lumbermen, Raftsmen, Woodchoppers
412.	Stock Handlers
413.	Teamsters
414.	Vehicle Washer, Equip Cleaners
415.	Warehousemen, Nec.
416.	Other Laborers
417.	Farmers (Owners and Tenants)
418.	Farm Managers
419.	Farm Foremen
420.	Farm Laborers, Wage Workers
421.	Farm Laborers, Unpaid Family
422.	Farm Laborers, Self-Employed

* These titles are the same as those used in the 1967 Bureau of Labor Statistics Industry-Occupation Matrix. The author regrets any appearance of sexism.

TABLE 18: INDUSTRY CLASSIFICATION FOR THE 190 LEVEL 1967 INPUT-OUTPUT TABLE

INDUSTRY CODE	INDUSTRY NAME
	INFORMATION
1.	Info Buildings: Office, Education, Communication
2.	Maintenance & Repair on Information Buildings
3.	Office Furniture & Equipment
4.	Paper: Printing
5.	Printing & Publishing
6.	Ink
7.	Printing & Paper Machinery
8.	Computer, Calculators, Office Equipment
9.	Electronic Measuring Instruments
10.	Radio, TV, Communications Equipment
11.	Electronic Components
12.	Misc. Electronic Instruments
13.	Mech. Measuring & Control Instruments
14.	Photographic & Related Equipment
15.	Advertising Signs & Displays
16.	Telecommunications, Exc. Radio & TV
17.	Radio & TV Broadcast & CATV
18.	Trade Margin on Information Goods
19.	Finance & Insurance: Information Transmission
20.	Real Estate: Fees, Royalty
21.	Repair: Radio & TV Equipment
22.	Misc. Business Information Services
23.	Motion Pictures, Theater
24.	Medical, Education, Nonprofit Services
25.	Postal Service
26.	Office Supplies
	SECONDARY INFORMATION
27.	Livestock & Products
28.	Other Agricultural Products
29.	Forestry & Fishery Products
30.	Agriculture, Forest, Fish Services
31.	Iron, Ores, Mining
32.	Nonferrous Ores Mining
33.	Coal Mining
34.	Crede Petroleum, Natural Gas
35.	Stone, Clay Mining
36.	Chemicals Mining
37.	New Construction, Net
38.	Maintenance & Repair Construction, Net.
39.	Ordnance & Accessories
40.	Food & Kindred Products
41.	Tobacco Manufacturers
42.	Fabrics, Yarn & Thread
43.	Misc. Textile Goods
44.	Apparel
45.	Misc Fabricated Textiles
46.	Lumber & Wood Products
47.	Wooden Containers
48.	Household Furniture
49.	Furniture & Fixtures, Net
50.	Paper Products, Exc Boxes, Net
51.	Paper Containers & Boxes

INDUSTRY CODE	INDUSTRY NAME
52.	Printing & Publishing, Net
53.	Chemicals, Net
54.	Plastic & Synthetics
55.	Drugs, Cleaning & Toilet Preparations
56.	Paints
57.	Petroleum Refining
58.	Rubber & Plastics
59.	Leather Products
60.	Leather, Industrial
61.	Glass Products
62.	Stone & Clay Products
63.	Primary Iron & Steel Manufacturing
64.	Primary Nonferrous Metal Manufacturing
65.	Metal Containers
66.	Heating & Plumbing Products
67.	Screw Machine Products
68.	Other Fabricated Metal Products
69.	Engines & Turbines
70.	Farm Machinery
71.	Construction Machinery
72.	Material Hauling Machinery
73.	Metalworking Machinery
74.	Special Industries Machinery, Net
75.	General Industrial Machinery
76.	Machine Shop Products
77.	Office Machines, Net
78.	Service Industry Machines
79.	Electric Industry Apparatus, Net
80.	Household Appliances
81.	Electric Light & Wire
82.	Radio & TV, Net
83.	Electronic Components, Net
84.	Misc. Electronic Products, Net
85.	Motor Vehicles & Equipment
86.	Aircraft & Parts
87.	Other Transportation Equipment
88.	Professional & Scientific Equipment, Net
89.	Optical & Photographic Equipment, Net
90.	Misc. Manufacturing, Net
91.	Transportation & Warehousing
92.	Communications, Net
93.	Broadcasting, Net
94.	Utilities
95.	Wholesale & Retail Trade, Net
96.	Finance & Insurance, Net
97.	Real Estate & Rental, Net
98.	Hotels, Personal, Repair Services, Net
99.	Misc Business Services, Net
100.	Research & Development
101.	Auto Repair & Service
102.	Amusements, Net
103.	Medical & Nonprofit Services, Net
104.	Federal Government Enterprises, Net
105.	State & Local Government
106.	Imports, Net
107.	Business Travel, Etc
108.	Office Supplies, Net

INDUSTRY CODE	INDUSTRY NAME
	NONINFORMATION
109.	Livestock & Products
110.	Other Agricultural Products
111.	Forestry & Fishery Products
112.	Agriculture, Forest, Fish Services
113.	Iron, Ores, Mining
114.	Nonferrous Ores Mining
115.	Coal Mining
116.	Crude Petroleum, Natural Gas
117.	Stone, Clay Mining
118.	Chemicals Mining
119.	New Construction, Net
120.	Maintenance & Repair Construction, Net
121.	Ordnance & Accessories
122.	Food & Kindred Products
123.	Tabacco Manufacturers
124.	Fabrics, Yarn & Thread
125.	Misc. Textile Goods
126.	Apparel
127.	Misc Fabricated Textiles
128.	Lumber & Wood Products
129.	Wooden Containers
130.	Household Furniture
131.	Furniture & Fixtures, Net
132.	Paper Products, Exc Boxes, Net
133.	Paper Containers & Boxes
134.	Printing & Publishing, Net
135.	Chemicals, Net
136.	Plastic & Synthetics
137.	Drugs, Cleaning & Toilet Preparations
138.	Paints
139.	Petroleum Refining
140.	Rubber & Plastics
141.	Leather Products
142.	Leather, Industrial
143.	Glass Products
144.	Stone & Clay Products
145.	Primary Iron & Steel Manufacturing
146.	Primary Nonferrous Metal Manufacturing
147.	Metal Containers
148.	Heating & Plumbing Products
149.	Screw Machine Products
150.	Other Fabricated Metal Products
151.	Engines & Turbines
152.	Farm Machinery
153.	Construction Machinery
154.	Material Hauling Machinery
155.	Metalworking Machinery
156.	Special Industries Machinery, Net
157.	General Industrial Machinery
158.	Machine Shop Products
159.	Office Machines, Net
160.	Service Industry Machines
161.	Electric Industry Apparatus, Net
162.	Household Appliances
163.	Electric Light & Wire

INDUSTRY CODE	INDUSTRY NAME
164.	Radio & TV, Net
165.	Electronic Components, Net
166.	Misc. Electronic Products, Net
167.	Motor Vehicles & Equipment
168.	Aircraft & Parts
169.	Other Transportation Equipment
170.	Professional & Scientific Equipment, Net
171.	Optical & Photographic Equipment, Net
172.	Misc. Manufacturing, Net
173.	Transportation & Warehousing
174.	Communications, Net
175.	Broadcasting, Net
176.	Utilities
177.	Wholesale & Retail Trade, Net
178.	Finance & Insurance, Net
179.	Real Estate & Rental, Net
180.	Hotels, Personal, Repair Services, Net
181.	Misc Business Services, Net
182.	Research & Development
183.	Auto Repair & Service
184.	Amusements, Net
185.	Medical & Nonprofit Services, Net
186.	Federal Government Enterprises, Net
187.	State & Local Government
188.	Imports, Net
189.	Business Travel, Etc
190.	Office Supplies, Net

FORM OT-29
(5-73)

U.S. DEPARTMENT OF COMMERCE
OFFICE OF TELECOMMUNICATIONS

BIBLIOGRAPHIC DATA SHEET

	1. PUBLICATION OR REPORT NO.	2. Gov't Accession No.	3. Recipient's Accession No.
	77-12(9)		

4. TITLE AND SUBTITLE THE INFORMATION ECONOMY: User's Guide to the Complete Database	5. Publication Date May, 1977
	6. Performing Organization Code
7. AUTHOR(S) Michael Rogers Rubin	9. Project/Task/Work Unit No.
8. PERFORMING ORGANIZATION NAME AND ADDRESS Office of Telecommunications U.S. Department of Commerce 1325 G Street, N.W. Washington, D.C. 20005	10. Contract/Grant No. APR-7609015
11. Sponsoring Organization Name and Address National Science Foundation 1800 G Street, N.W. Washington, D.C. 20550	12. Type of Report and Period Covered
	13.

14. SUPPLEMENTARY NOTES

15. ABSTRACT *(A 200-word or less factual summary of most significant information. If document includes a significant bibliography or literature survey, mention it here.)*

This report series defines and measures the "information activity" within the national economy. "Information activity" is defined to include those specific industries and occupations whose primary function is to produce, process or transmit economically valuable information. Changes in the national labor force are analyzed over a 120-year span. Information activities have grown dramatically over the last several decades, until they employed 46% of the labor force in 1970. National Income and Product accounts are analyzed to determine the contribution of the information activities to wages and capital expenditures. Information workers earned 53% of total wages in 1970; 46% of value added was derived from information activities in 1967. Input-Output tables have been constructed which show the detailed structure of the information economy.

Volumes 1 and 2 summarize the findings. Volumes 3, 4, and 5 set forth the Input-Output tables. Volumes 6 through 8 detail the workforce and National Income accounts. Volume 9 describes the database available on computer readable magnetic tape.

16. Key Words *(Alphabetical order, separated by semicolons)*

Economic Research;
Employment Statistics;
Employment Trends;
Information Economy;
Input-Output Economics;
National Income Accounts

17. AVAILABILITY STATEMENT	18. Security Class *(This report)*	20. Number of pages
[XX] UNLIMITED.	Unclassified	71 pp.
[ ] FOR OFFICIAL DISTRIBUTION.	19. Security Class *(This page)* Unclassified	21. Price

USCOMM-DC 29715-P74

77

☆ GOVERNMENT PRINTING OFFICE: 1977-240-848/703